UMTRI University of Michigan Transportation Research Institute

OHSP Office of Highway Safety Planning

Commonly Used Queries

Michigan Traffic Crash Facts – Data Query Tool

www.MichiganTrafficCrashFacts.org

KABCO Injury Indicator:
K = Killed
A = Incapacitating Injury
B = Non-incapacitating Injury
C = Possible Injury
O = No Injury; Property Damage Only (PDO)

Query	Analysis Level	Filters
FATALITIES (K)		
Number of fatalities	People	**Person Degree of Injury** = Killed (K)
Number of drivers **/** bicyclists **/** pedestrians killed	People	**Person Degree of Injury** = Killed (K) & **Party Type** = Motor vehicle driver **/** Bicyclist **/** Pedestrian
Drivers & passengers of motorcycles **/** ORV/ATV riders **/** snowmobilers killed	People	**Person Degree of Injury** = Killed (K) & **Vehicle Type** = Cycle (CY) **/** ORV/ATV (OR) **/** Snowmobile (SM)
Fatalities to unrestrained vehicle occupants	People	**Person Degree of Injury** = Killed (K) & **Vehicle Type** = Passenger car & station wagon (PA) + Van, motorhome (VA) + Pickup Truck (PU) + Small truck under 10,000 lbs. GVWR (ST) + Truck/bus over 10,000 lbs. & **Person Restraint** = No belts available + No belts used + Child restraint not used, unavailable, or improper use
Fatalities to unhelmeted motorcycle occupants	People	**Person Degree of Injury** = Killed (K) & **Vehicle Type** = Cycle (CY) & **Person Restraint** = Helmet not worn
Drivers *(specify ages)* killed	People	**Person Degree of Injury** = Killed (K) & **Person Age** = *(select ages)* & **Party Type** = Motor vehicle driver
Fatalities in *(specify ages)* involved	People	**Person Degree of Injury** = Killed (K) & **Person Age** = *(select ages)*
KILLED AND INCAPACITATING INJURIES (KA)		
Number of KA	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A)
KA injuries, passenger vehicle type, occupants *(specify ages)*	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury & **Vehicle Type** = Passenger car & station wagon (PA) + Van, motorhome (VA) + Pickup truck (PU) + Small truck under 10,000 lbs. GVWR (ST) & **Person Age** = *(select ages)*
KA injuries at intersections **/** involving lane departure **/** involving motorcycles	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Crash: Intersection** = Intersection crash **/ Crash: Lane Departure =** single vehicle, multiple vehicle, parked vehicle **/ Crash: Motorcycle** = motorcycle involved
KA injuries on local roads	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Highway Class** = County road, city street or unknown
KA injuries to pedestrians	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Traffic Unit Type** = Pedestrian
KA injuries to males	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Person Gender** = Male
KA injuries involving deer	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Crash: Deer Involv/assoc** = Deer involved
KA injuries from midnight to 3am (*specify time range*)	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Time Of Day** = midnight to 3 am (*select time range*)
KA injuries from noon Friday to noon Sunday	People	Multiple tables are needed: 1) **Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Day of Week** = Friday & **Time Of Day** = noon to midnight; **add result to:** 2) **Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Day of Week** = Saturday; **add result to:** 3) **Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Day of Week** = Sunday & **Time Of Day** = midnight to noon
KA injuries involving alcohol	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Crash: Drinking** = Drinking involved
KA injuries involving drugs	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Crash: Drug Use** = Drugs involved

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Questions? Contact us: mtcf-info@umich.edu

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Query	Analysis Level	Filters
INJURIES (A, B, C)		
Number of (A) / (B) / (C) injuries	People	**Person Degree of Injury** = Incapacitating (A) injury **/** Nonincapacitating (B) injury **/** Possible (C) injury
Number of total injuries (A, B, C)	People	**Person Degree of Injury** = Incapacitating injury (A) + Nonincapacitating injury (B) + Possible injury (C)
Number of drivers **/** bicyclists **/** pedestrians injured (A, B, C)	People	**Person Degree of Injury** = Incapacitating injury (A) + Nonincapacitating injury (B) + Possible injury (C) & **Party Type** = Motor vehicle driver **/** Bicyclist **/** Pedestrian
Drivers & passengers of motorcycles **/** ORV/ATV riders **/** snowmobilers injured (A, B, C)	People	**Person Degree of Injury** = Incapacitating injury (A) + Nonincapacitating injury (B) + Possible injury (C) & **Vehicle Type** = Cycle (CY) **/** ORV/ATV (OR) **/** Snowmobile (SM)
NO INJURIES (PROPERTY DAMAGE ONLY)		
Number of PDO crashes	Crash	**Crash: Property Damage** = Property damage involved (not all PDO crashes are reported)
Number of drivers **/** bicyclists **/** pedestrians in PDO crashes	People	**Party Type** = Motor vehicle driver **/** Bicyclist **/** Pedestrian & **Worst Injury in Accident** = No injury
Drivers & passengers of motorcyclists **/** ORV/ATV riders **/** snowmobilers / other vehicle type selection in PDO crashes	People	**Vehicle Type** = Cycle (CY) **/** ORV/ATV (OR) **/** Snowmobile (SM) & **Worst Injury in Accident** = No injury
IMPAIRED DRIVING		
Only drug involved crashes	Crash	**Crash: Drug Use** = Drugs involved & **Crash: Drinking** = No drinking involved
Only alcohol involved crashes	Crash	**Crash: Drinking** = Drinking involved & **Crash: Drug use** = No drugs involved
Drug or alcohol involved crashes	Crash	Run a table of **Crash: Drug Use** vs. **Crash: Drinking**, then sum the appropriate cells
No drugs or alcohol involved crashes	Crash	**Crash: Drug Use** = No drugs involved & **Crash: Drinking** = No drinking involved
Both drugs and alcohol involved crashes	Crash	**Crash: Drug Use** = Drugs involved & **Crash: Drinking** = Drinking involved
CRASHES		
Number of ORV/ATV crashes	Crash	**Crash: ORV** = Off-road vehicle involved
Number of motorcycles in crashes	Unit	**Vehicle Type** = Cycle (CY)
Number of ORV/ATVs **/** snowmobiles in crashes	Unit	**Vehicle Type** = ORV/ATV (OR) **/** Snowmobile (SM)
Number of drivers **/** bicyclists **/** pedestrians in crashes	People	**Party Type** = Motor vehicle driver **/** Bicyclist **/** Pedestrian
Number of motorcycle drivers in crashes	People	**Vehicle Type** = Cycle (CY) & **Party Type** = Motor vehicle driver
Motorcycle passengers only	People	**Vehicle Type** = Cycle (CY) & **Party Type** = Injured passenger + Uninjured passenger
RESTRAINTS		
Restraints Used	People	**Person Restraint** = Shoulder belt only + Lap belt only + Both lap and shoulder belt + Child restraint used + Restraint failure & **Party Type** = Motor vehicle driver + Injured passenger + Uninjured passenger
Restraints Not Used	People	**Person Restraint** = No belts available + No belts used + Child restraint not used, unavailable, or improper use & **Party Type** = Motor vehicle driver + Injured passenger + Uninjured passenger
Belts Not Used	People	**Person Restraint** = No belts available + No belts used & **Party Type** = Motor vehicle driver + Injured passenger + Uninjured passenger
Helmet worn **/** not worn by motorcyclist	People	**Person Restraint** = Helmet worn **/** Helmet not worn & **Vehicle Type** = Cycle (CY)
Helmet worn **/** not worn by motorcycle driver	People	**Person Restraint** = Helmet worn **/** Helmet not worn & **Vehicle Type** = Cycle (CY) & **Party Type** = Motor vehicle driver

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Query	Analysis Level	Filters
SCHOOL BUS CRASHES		
Number of school bus crashes	Crash	**Crash: School Bus** = School bus involved
Number of total school bus fatalities	People	**Person Degree of Injury** = Killed (K) & **Special Vehicle** = Bus (commercial, private, school) & **Vehicle Use** = School / education
Number of total school bus injuries	People	**Person Degree of Injury** = Incapacitating injury (A) + Nonincapacitating Injury (B) + Possible Injury (C) & **Special Vehicle** = Bus (commercial, private, school) & **Vehicle Use** = School / education
Number of KA injuries on school buses in February	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Accident Month** = February & **Special Vehicle** = Bus (commercial, private, school) & **Vehicle Use** = School / education
Number of school bus-related injuries	People	**Person Degree of Injury** = Incapacitating injury (A) + Nonincapacitating Injury (B) + Possible Injury (C) & **Crash: School Bus** = School bus involved
School bus KA injuries from 3pm to 4pm *(specify time range)*	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Time Of Day** = 3 pm to 4 pm & **Special Vehicle** = Bus (commercial, private, school) & **Vehicle Use** = School / education
Number of KAB injuries involving school bus occupants between *(specify ages)*	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) + Nonincapacitating Injury (B) & **Person Age** = *(select ages)* & **Special Vehicle** = Bus (commercial, private, school) & **Vehicle Use** = School / education
Number of KA injuries to pedestrians in school bus crashes	People	**Person Degree of Injury** = Killed (K) + Incapacitating injury (A) & **Traffic Unit Type** = Pedestrian & **Crash: School Bus** = School bus involved