



2009 CROSS MEDIAN CRASH SUMMARY

WisTransPortal was queried to obtain data for crashes that occurred on all divided highways without a median barrier in Wisconsin in 2009. All intersection-related and deer crashes were removed from the dataset resulting in 5030 crashes that could potentially be cross median crashes (CMC). Crash reports for 3887 crashes (out of 5030 potential crashes) were available on the WisTransPortal. Reports for the remaining 1143 (5030 – 3887) were requested from Wisconsin Department of Transportation (WisDOT). WisDOT provided the research team with 913 crash reports. The research team approached the local agencies to obtain the remaining 209 crash reports and successfully obtained 159 crash reports. Waukesha county and Ashwaubenon Dept. of Public Safety charged for the crash reports. On reviewing the crash reports furnished by WisDOT it was observed that for 121 crashes pages 3 and 4 of the crash report were missing. Crash reports for these were requested again, but could not be obtained in a timely fashion. At the end, 171 (out of 5030) reports were not reviewed either because they could not be obtained in a timely way from the locals or were missing pages 3 and 4 (which contain narrative and diagram) of the crash report.

TABLE 1 Multi-Vehicle Crossover Median Crashes by Year

| Year | Crossover Median Crashes |
|--------------|---------------------------------|
| 2001 | 29 |
| 2002 | 37 |
| 2003 | 43 |
| 2004 | 44 |
| 2005 | 65 |
| 2006 | 44 |
| 2007 | 29 |
| 2008 | 29 |
| 2009 | 24 |
| Total | 344 |

TABLE 2 2009 Crossover Median Crashes by Crash Severity

| Crash Severity | Crashes |
|-----------------------|------------------|
| Property Damage Only | 8 (20.8%) |
| Personal Injury | 11 (45.8%) |
| Fatal | 5 (33.4%) |
| Total | 24 (100%) |

TABLE 3 2001-09 Crossover Median Crashes by Crash Severity

| Crash Severity | Crashes |
|-----------------------|-------------------|
| Property Damage Only | 71 (20.6%) |
| Personal Injury | 199 (57.8%) |
| Fatal | 74 (21.5%) |
| Total | 344 (100%) |

TABLE 4 2009 Crossover Median Crashes by Total Vehicles Involved

| Total Vehicles Involved | Crashes |
|--------------------------------|--------------------|
| 2 | 19 (79.2%) |
| Passenger Car – Passenger Car | 8 |
| Passenger Car – Truck | 9 |
| Truck – Truck | 2 |
| 3 | 3 (12.5%) |
| Passenger Car – Passenger Car | 1 |
| Passenger Car – Truck | 2 |
| 4 | 2 (8.3%) |
| Passenger Car – Passenger Car | 2 |
| Totals | 24 (100.0%) |

TABLE 5 2001-09 Crossover Median Crashes by Total Vehicles Involved

| Total Vehicles Involved | Crashes |
|--------------------------------|--------------------|
| 2 | 240 (69.8%) |
| Passenger Car – Passenger Car | 127 |
| Passenger Car - Motorcycle | 1 |
| Passenger Car – Truck | 91 |
| Truck – Truck | 22 |
| 3 | 85 (24.7%) |
| Passenger Car – Passenger Car | 43 |
| Passenger Car – Truck | 36 |
| Truck – Truck | 6 |
| 4 | 14 (4.1%) |
| Passenger Car – Passenger Car | 12 |
| Passenger Car – Truck | 2 |
| 5 or more | 5 (1.5%) |
| Passenger Car – Passenger Car | 5 |
| Totals | 344 (100%) |

TABLE 6 2009 Crossover Median Crashes by Crash Vehicle Type

| Crossover Crash Vehicle Type | Crashes |
|---------------------------------------|------------------|
| Multiple Vehicle Total | |
| Passenger Car – Passenger Car | 11 (45.8%) |
| Passenger Car – Truck | 11 (45.8%) |
| Truck – Truck | 2 (8.3%) |
| Total Crossover Median Crashes | 24 (100%) |

TABLE 7 2001-09 Crossover Median Crashes by Crash Vehicle Type

| Crossover Crash Vehicle Type | Crashes |
|---------------------------------------|-------------------|
| Multiple Vehicle Total | |
| Passenger Car – Passenger Car | 187 (54.4%) |
| Passenger Car – Motorcycle | 1 (0.3%) |
| Passenger Car – Truck | 129 (37.5%) |
| Truck – Truck | 27 (7.8%) |
| Total Crossover Median Crashes | 344 (100%) |

TABLE 8 2009 Crossover Median Crash Severity by Crash Vehicle Type

| Crash Severity | | Property | | | Totals |
|-------------------------------------|-------------------------------|------------------------|--------------|-----------|---------------|
| Crossover Crash Vehicle Type | Damage Only | Personal Injury | Fatal | | |
| Multiple Vehicles Type | Passenger Car – Passenger Car | 2 | 5 | 4 | 11 |
| | Passenger Car – Motorcycle | 0 | 0 | 0 | 0 |
| | Passenger Car – Truck | 5 | 5 | 1 | 11 |
| | Truck – Truck | 1 | 1 | 0 | 2 |
| Totals | 8 | 11 | 5 | 24 | |

TABLE 9 2001-09 Crossover Median Crash Severity by Crash Vehicle Type

| Crash Severity | | Property | | | Totals |
|-------------------------------------|-------------------------------|------------------------|--------------|------------|---------------|
| Crossover Crash Vehicle Type | Damage Only | Personal Injury | Fatal | | |
| Multiple Vehicles Type | Passenger Car – Passenger Car | 40 | 106 | 41 | 187 |
| | Passenger Car – Motorcycle | 0 | 1 | 0 | 1 |
| | Passenger Car – Truck | 24 | 75 | 30 | 129 |
| | Truck – Truck | 7 | 17 | 3 | 27 |
| Totals | 71 | 199 | 74 | 344 | |

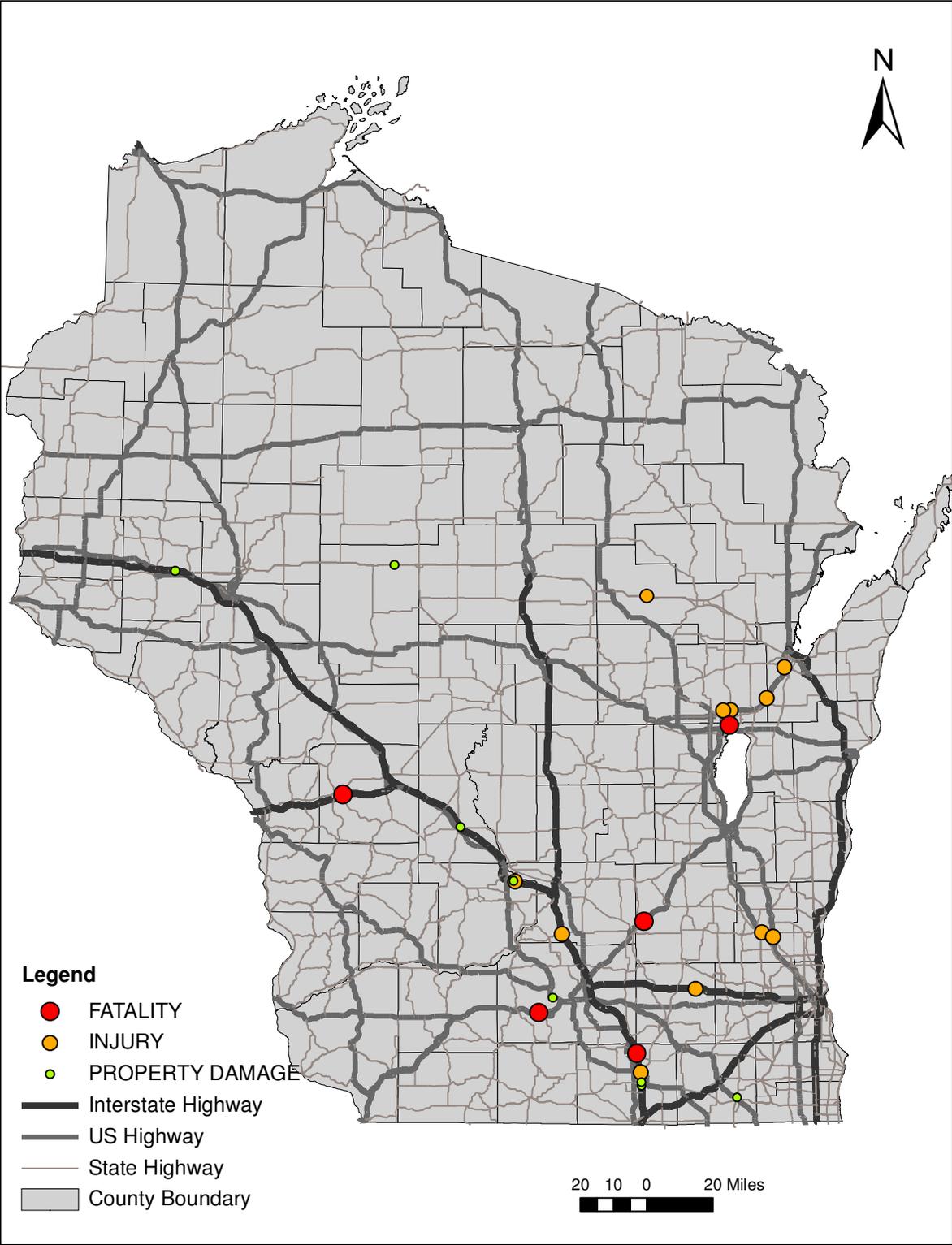


FIGURE 1. 2009 Cross Median Crashes.

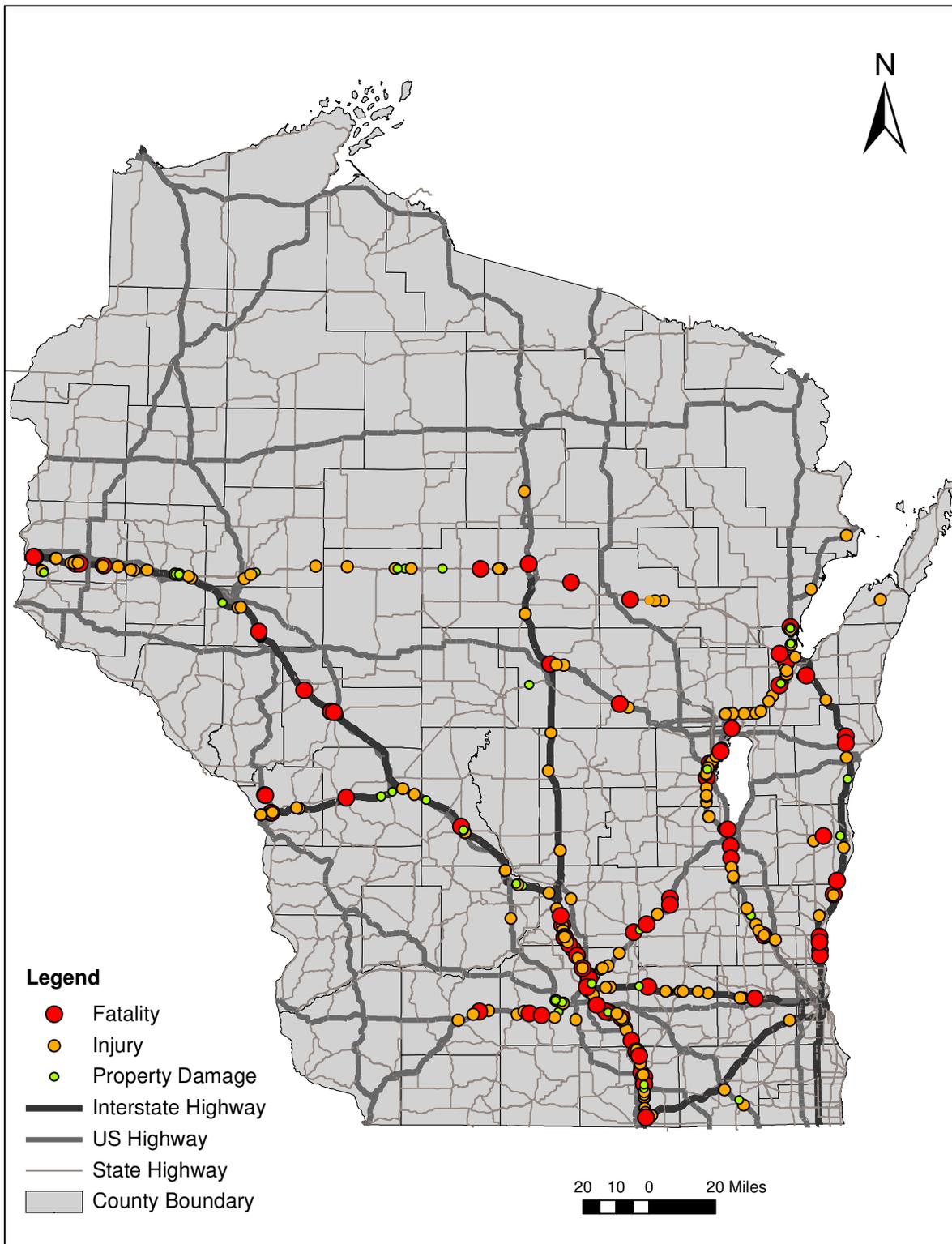


FIGURE 2. 2001 - 2009 Cross Median Crashes.

2009 MULTI-VEHICLE CROSS MEDIAN CRASHES

| ACCDNMBR | COUNTY | MUNICIPALITY | ONHWY | ONHWYDIR | ONHWYRP | RPDIS | RPNMBR | ATHWY | INTDIS | ACCDSVR | INJSVR | TOTFATL | TOTINJ | TOTVEH |
|-----------|------------|--------------|-------|----------|---------|-------|--------|-------|--------|---------|--------|---------|--------|--------|
| 090101478 | ROCK | JANESVILLE | 39 | S | 39 | 0.27 | 218 | O | 10 | PD | | 0 | 0 | 2 |
| 090103122 | DODGE | CALAMUS | 151 | N | 151 | 0.2 | 107K | S | 20 | FAT | K | 1 | 6 | 2 |
| 090113017 | COLUMBIA | ARLINGTON | 39 | S | 39 | 0.33 | 261 | 60 | 33 | INJ | A | 0 | 2 | 2 |
| 090200377 | OUTAGAMIE | KAUKAUNA | 41 | N | 41 | 0.04 | 143M | U | 1 | INJ | A | 0 | 1 | 2 |
| 090201657 | SAUK | FAIRFIELD | 90 | W | 90 | 0.55 | 095M | A | 50 | INJ | A | 0 | 3 | 2 |
| 090202328 | WALWORTH | LYONS | 12 | W | 12 | 0.02 | 434 | | 10 | PD | | 0 | 0 | 2 |
| 090203408 | JUNEAU | MAUSTON | 90 | W | 90 | 0.23 | 069K | 82 | 23 | PD | | 0 | 0 | 2 |
| 090307213 | DANE | MADISON | 12 | E | 12 | 0.57 | 337 | | 19 | PD | | 0 | 0 | 2 |
| 090508535 | WASHINGTON | SLINGER | 41 | N | 41 | 0.03 | 38 | 60 | 3 | INJ | A | 0 | 3 | 3 |
| 090600326 | SHAWANO | SENECA | 29 | | | | | | 12 | INJ | B | 0 | 2 | 2 |
| 090604885 | DANE | VERONA | 18 | W | 18 | 0.41 | 141M | G | 41 | FAT | K | 2 | 4 | 2 |
| 090605380 | SAUK | DELTON | 90 | E | 90 | 1.97 | 092M | A | 9 | PD | | 0 | 0 | 2 |
| 090605399 | ROCK | JANESVILLE | 39 | S | 39 | 0.3 | 222 | 26 | 30 | INJ | B | 0 | 1 | 2 |
| 090704910 | JEFFERSON | FARMINGTON | 94 | E | 94 | 0.2 | 272G | P | 20 | INJ | C | 0 | 1 | 2 |
| 090707587 | OUTAGAMIE | APPLETON | 41 | N | 41 | 0.12 | 127 | 47 | 11 | INJ | A | 0 | 2 | 2 |
| 090801380 | OUTAGAMIE | GRAND CHUTE | 41 | N | 41 | 0.28 | 124 | | 47 | INJ | A | 0 | 2 | 3 |
| 090802213 | MONROE | ANGELO | 90 | E | 90 | 0.78 | 027K | 16 | 30 | FAT | K | 1 | 2 | 2 |
| 090901357 | ROCK | LA PRAIRIE | 39 | S | 39 | 0.37 | 219 | 11 | 50 | PD | | 0 | 0 | 2 |
| 091003040 | DUNN | RED CEDAR | 94 | W | 94 | 1 | 048T | | 9 | PD | | 0 | 0 | 2 |
| 091100829 | WINNEBAGO | MENASHA | 10 | W | 10 | 0.75 | 318B | | 10 | FAT | K | 1 | 3 | 4 |
| 091107162 | ROCK | MILTON | 39 | S | 39 | 0.1 | 227 | | 10 | FAT | K | 2 | 4 | 2 |
| 091201767 | BROWN | ASHWAUBENON | 41 | S | 41 | 0.06 | 156D | 172 | 6 | INJ | A | 0 | 3 | 3 |
| 091204237 | CLARK | HOARD | 29 | E | 29 | 1.5 | 136H | | 50 | PD | | 0 | 0 | 2 |
| 091205741 | WASHINGTON | POLK | 45 | S | 45 | 0.4 | 061K | | 40 | INJ | B | 0 | 4 | 4 |