

# TABLE OF CONTENTS

## QUICK FACTS & FIGURES

2006 Quick Facts .....	3
Reported Statewide Traffic Crashes by County in Michigan .....	5
Michigan's Crash Watch 2006 .....	7

## HISTORICAL INFORMATION

### 10 Year (1997-2006)

Vehicle Registrations .....	11
Vehicle Miles Traveled .....	11
Total Crashes .....	11
Motor Vehicle Deaths .....	12
Injuries in Motor Vehicle Crashes .....	12
Total Fatal Crashes .....	12
HBD Fatalities .....	13
HBD Injuries .....	13
HBD Fatal Crashes .....	13
Restraint Usage .....	14
Licensed Drivers .....	14
Mileage Death Rate .....	14
Total Crash Rate .....	15
Personal Injury Crash Rate .....	15
Property Damage Crash Rate .....	15
Male vs. Female Drivers in All Crashes .....	16
Male vs. Female Drivers in Fatal Crashes .....	16
Male vs. Female Drinking Drivers in All Crashes .....	16
All Drivers in All and Fatal Crashes .....	18
Teen/Young Adult Drivers in All and Fatal Crashes .....	18
Elderly Drivers in All and Fatal Crashes .....	18
All Drinking Drivers in All and Fatal Crashes .....	20
Teen/Young Adult Drinking Drivers in All and Fatal Crashes .....	20
Elderly Drinking Drivers in All and Fatal Crashes .....	20
Motor Vehicles in All and Fatal Crashes .....	22
Motorcycles in All and Fatal Crashes .....	22
Pedestrians in All and Fatal Crashes .....	22
Bicycles in All and Fatal Crashes .....	24
Snowmobiles on Roadway in All and Fatal Crashes .....	24
ORV/ATV's on Roadway in All and Fatal Crashes .....	24
Vehicle-Train Crashes .....	26
Vehicle-Deer Crashes .....	26
Farm Equipment Crashes .....	26
Death & Injury per Crash-Involved Occupant .....	27
Michigan, U.S. and Surrounding States - Mileage Death Rates .....	28
Michigan, U.S. and Surrounding States - Fatalities and VMT .....	29
Average Age of Drivers in Crashes .....	30

### 5 Year (2002-2006)

Age of Persons Killed, Total .....	31
Age of Drivers Involved in Fatal Crashes .....	32
Age of Drivers Involved in Single Vehicle Fatal Crashes .....	32
Age of Bicyclists Killed .....	33
Age of Pedestrians Killed .....	33
Action of Pedestrians Killed .....	33
Selected Holiday Data .....	34
Motor Vehicle Deaths and Mileage by Month .....	35

1 Year (2005-2006)	
Summary Trends .....	37
More Michigan Crash Facts .....	39
2006 Cost of Crashes in Michigan .....	39
Map of Where Traffic Fatalities Occurred .....	40
Years (1955-2006)	
Motor Vehicle Traffic Deaths in Michigan by Month .....	41
Motor Vehicle Traffic Crash and Related Data.....	42

**SPECIAL FOCUS**

**RED-LIGHT-RUNNING CRASHES**

Section Introduction.....	45
Speed Limit .....	47
Crash Type.....	47
Special Circumstances .....	48
Driver Conditions .....	48

**HEAVY TRUCK/BUS**

Section Introduction.....	49
Action Prior to Crash - Driver Action .....	51
Most Harmful Event.....	52
Crash Type.....	54
Hazardous Action .....	54
Relationship to Roadway .....	55
Time and Severity.....	55
Roadway Type.....	55
Day of Week.....	56
Driver Gender.....	56
Number of Occupants in.....	56
Vehicle Type.....	57
Hazardous Citation Issued.....	58

**AGE**

Person's Age and their Injury Severity by Person Type.....	61
--	----

**Driver Age 16-24**

Action Prior to Crash - Driver Action .....	65
Most Harmful Event.....	66
Crash Type.....	68
Relationship to Roadway .....	68
Roadway Type.....	68
Time and Severity.....	69
Hazardous Action .....	69
Day of Week.....	70
Driver Gender.....	70
Number of Occupants in Motor Vehicle .....	70
Vehicle Type.....	71

**Driver Age 25-64**

Action Prior to Crash - Driver Action .....	73
Most Harmful Event.....	74
Crash Type.....	76
Relationship to Roadway .....	76
Roadway Type.....	76
Time and Severity.....	77
Hazardous Action .....	77
Day of Week.....	78

Driver Gender.....	78
Number of Occupants in Motor Vehicle .....	78
Vehicle Type.....	79
Driver Age 65 & Over	
Action Prior to Crash - Driver Action .....	81
Most Harmful Event.....	82
Crash Type.....	84
Relationship to Roadway .....	84
Roadway Type.....	84
Time and Severity.....	85
Hazardous Action .....	85
Day of Week.....	86
Driver Gender.....	86
Number of Occupants in Motor Vehicle .....	86
Vehicle Type.....	87

## ALCOHOL

Injury Experience for Persons Who Had Been Drinking .....	91
Drivers Drinking and/or Using Drugs & Injury Severity in Crash .....	92
All Crashes and HBD Crashes by Injury Severity .....	93
Death & Injury per Crash Involved Occupant .....	94
All Drivers and HBD Drivers Injury Severity - Ejected vs. Not Ejected.....	95
All Occupants and Occupants of HBD Crashes Injury Severity - Ejected vs. Not Ejected .....	96
Injury Severity & Restraint Use for Crash Involved KABC Drivers .....	97
Injury Severity & Restraint Use for Crash Involved KABC Occupants .....	98
Alcohol Involvement in Fatal Crashes .....	99
Alcohol Involvement in Injury Crashes .....	101
Reported Age of Drinking Drivers Involved in Crashes by County.....	103
Male Drivers & Injury Severity in Crash .....	105
Male Drinking Drivers & Injury Severity in Crash.....	106
Female Drivers & Injury Severity in Crash.....	107
Female Drinking Drivers & Injury Severity in Crash.....	108
Fatal Crashes and Fatalities with Drinking Involvement by County .....	109
Map of Traffic Fatalities with Drinking Involvement by County.....	111
Most Severe Outcome in HBD Crashes by County .....	112
County Ranking by HBD Fatal Crash Rate per 1,000 Michigan Residents.....	114
Map of County Ranking by HBD Fatal Crash Rate.....	116
Reported Statewide Alcohol Involved Traffic Crashes by County in Michigan .....	117

## DEER

Map of Michigan Motor Vehicle-Deer Involved Crashes .....	121
Light Condition and Time of Day in Motor Vehicle-Deer Crashes.....	122
Monthly and Seasonal Rates for Motor Vehicle-Deer Crashes.....	123
Reported Statewide Deer Crashes by County in Michigan .....	124

## CRASH - *Circumstances common to all traffic units in a crash*

All Crashes Injury Severity by Month.....	129
Crash Experience by Roadway Type .....	130
Crash Type .....	131
Relationship to Roadway.....	131
Time and Severity .....	132
Day of Week .....	133
Road Condition .....	134
Weather Condition .....	135
Light Condition .....	136
Intersection Crashes by Traffic Control Type .....	137

Construction Zone Crashes .....	138
<b>VEHICLE/DRIVER - <i>Characteristics specific to individual traffic units</i></b>	
Vehicle Type Crash Involvement.....	141
Vehicle Types in Crashes by Crash Severity.....	142
Action Prior to Crash - Driver Action .....	143
Action Prior to Crash - Motorcyclist Action .....	144
Action Prior to Crash - Bicyclist Action .....	145
Action Prior to Crash - Pedestrian Action .....	146
Most Harmful Event .....	147
Vehicle Defects in Crash Involvement.....	149
Driver Hazardous Action .....	149
Michigan Bicycle Crashes .....	150
Michigan Pedestrian Crashes .....	151
Michigan Snowmobile Crashes .....	152
Michigan ORV/ATV Crashes.....	154
Snowmobile Driver Hazardous Action .....	155
ORV/ATV Driver Hazardous Action.....	155
Michigan Farm Equipment Crashes .....	156
Michigan Vehicle-Train Crashes .....	156
Michigan Motorcycle Crashes .....	156
Driver Gender Information - All Crashes .....	157
Person Age: Demographics and Crash Involvements .....	158
Crash Rate per Licensed Driver by Age of Driver in All Crashes .....	159
Reported Age of Drivers Involved in All Crashes by County .....	160
Driver Age.....	162
Driver Condition .....	163
Driver Injury Severity by Restraint, Alcohol, and Drug Use.....	163
Registration Transactions .....	164
<b>OCCUPANT/PERSON - <i>Specific information on each driver and injured person in a crash</i></b>	
Age & Gender of Occupants Killed & Injured in Motor Vehicle Crashes .....	169
Reported Occupant Restraint Usage for All Drivers and Injured Passengers.....	170
Motor Vehicle Occupants & Injury Severity by Seating Position and Known Belt Usage .....	171
Reported Restraint Use - Children .....	172
Motor Vehicle Occupant Injury Severity by Known Airbag Deployment .....	173
Age & Gender of Motorcyclists Killed & Injured in Motor Vehicle Crashes.....	174
Motorcycle Helmet Use and Injury Severity .....	175
Occupant Injury Outcome by Vehicle Type .....	176
<b>REFERENCES</b>	
References and Reporting Agencies.....	179
Resources.....	180
<b>INDEX</b>	
Index.....	183