

TABLE OF CONTENTS

QUICK FACTS & FIGURES

2004 Quick Facts	3
Reported Statewide Traffic Crashes by County in Michigan	5
Michigan's Crash Watch 2004.....	7

HISTORICAL INFORMATION

10 Year (1995-2004)

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
Fatalities and VMT Trends.....	28
Michigan, U.S. and Surrounding States - Mileage Death Rates.....	29
Michigan, U.S. and Surrounding States - Fatalities and VMT	30
Average Age of Drivers in Crashes.....	31

5 Year (2000-2004)

Age of Persons Killed, Total	33
Age of Drivers Involved in Fatal Crashes.....	34
Age of Drivers Involved in Single Vehicle Fatal Crashes	34
Age of Bicyclists Killed.....	35
Age of Pedestrians Killed.....	35
Action of Pedestrians Killed	35

Selected Holiday Data	36
Motor Vehicle Deaths and Mileage by Month.....	37
1 Year (2003-2004)	
Summary Trends	39
2004 Cost of Crashes in Michigan	41
Map of Where Traffic Fatalities Occurred	42
Years (1953-2004)	
Motor Vehicle Traffic Deaths in Michigan by Month	43
Motor Vehicle Traffic Crash and Related Data.....	44

SPECIAL FOCUS

RED-LIGHT-RUNNING CRASHES

Section Introduction.....	47
Speed Limit	49
Crash Type.....	49
Special Circumstances	50
Driver Conditions	50

HEAVY TRUCK/BUS

Section Introduction.....	51
Action Prior to Crash - Driver Action	53
Most Harmful Event	54
Crash Type.....	56
Hazardous Action	56
Relationship to Roadway	57
Time and Severity.....	57
Roadway Type.....	57
Day of Week.....	58
Driver Gender.....	58
Number of Occupants in.....	58
Vehicle Type.....	59
Hazardous Citation Issued.....	60

AGE

Person's Age and their Injury Severity by Person Type.....	63
Driver Age	
Section Introduction.....	66
Driver Age 16-24	
Action Prior to Crash - Driver Action	67
Most Harmful Event	68
Crash Type.....	70
Relationship to Roadway	70
Roadway Type.....	70
Time and Severity.....	71
Hazardous Action	71
Day of Week.....	72
Driver Gender.....	72
Number of Occupants in Motor Vehicle	72
Vehicle Type.....	73
Driver Age 25-64	
Action Prior to Crash - Driver Action	75
Most Harmful Event	76
Crash Type.....	78
Relationship to Roadway	78
Roadway Type.....	78
Time and Severity.....	79

Hazardous Action	79
Day of Week.....	80
Driver Gender.....	80
Number of Occupants in Motor Vehicle	80
Vehicle Type.....	81
Driver Age 65 & Over	
Action Prior to Crash - Driver Action	83
Most Harmful Event	84
Crash Type.....	86
Relationship to Roadway	86
Roadway Type.....	86
Time and Severity.....	87
Hazardous Action	87
Day of Week.....	88
Driver Gender.....	88
Number of Occupants in Motor Vehicle	88
Vehicle Type.....	89

ALCOHOL

Injury Experience for Persons Who Had Been Drinking	93
Drivers Drinking and/or Using Drugs & Injury Severity in Crash	94
All Crashes and HBD Crashes by Injury Severity	95
Death & Injury per Crash Involved Occupant	96
All Drivers and HBD Drivers Injury Severity - Ejected vs. Not Ejected	97
All Occupants and Occupants of HBD Crashes Injury Severity - Ejected vs. Not Ejected	98
Injury Severity & Restraint Use for Crash Involved KABC Drivers	99
Injury Severity & Restraint Use for Crash Involved KABC Occupants	100
Alcohol Involvement in Fatal Crashes	101
Alcohol Involvement in Injury Crashes.....	103
Reported Age of Drinking Drivers Involved in Crashes by County.....	105
Male Drivers & Injury Severity in Crash	107
Male Drinking Drivers & Injury Severity in Crash	108
Female Drivers & Injury Severity in Crash.....	109
Female Drinking Drivers & Injury Severity in Crash.....	110
Fatal Crashes and Fatalities with Drinking Involvement by County.....	111
Map of Traffic Fatalities with Drinking Involvement by County.....	113
Most Severe Outcome in HBD Crashes by County	114
County Ranking by HBD Fatal Crash Rate per 1,000 Michigan Residents.....	116
Map of County Ranking by HBD Fatal Crash Rate.....	118
Reported Statewide Alcohol Involved Traffic Crashes by County in Michigan	119

DEER

Map of Michigan Motor Vehicle-Deer Involved/Associated Crashes.....	123
Light Condition and Time of Day in Motor Vehicle-Deer Crashes.....	124
Monthly and Seasonal Rates for Motor Vehicle-Deer Crashes.....	125
Reported Statewide Deer Crashes by County in Michigan	126

CRASH - Circumstances common to all traffic units in a crash

All Crashes Injury Severity by Month.....	131
Crash Experience by Roadway Type	132
Crash Type	133
Relationship to Roadway.....	133
Time and Severity	134
Day of Week	135
Road Condition	136

Weather Condition	137
Light Condition	138
Intersection Crashes by Traffic Control Type	139
Construction Zone Crashes.....	140
VEHICLE/DRIVER - <i>Characteristics specific to individual traffic units</i>	
Vehicle Type Crash Involvement.....	143
Vehicle Types in Crashes by Crash Severity	144
Action Prior to Crash - Driver Action.....	145
Action Prior to Crash - Motorcyclist Action	146
Action Prior to Crash - Bicyclist Action	147
Action Prior to Crash - Pedestrian Action	148
Most Harmful Event.....	149
Vehicle Defects in Crash Involvement.....	151
Driver Hazardous Action	151
Michigan Bicycle Crashes	152
Michigan Pedestrian Crashes.....	153
Michigan Snowmobile Crashes	154
Michigan ORV/ATV Crashes.....	156
Snowmobile Driver Hazardous Action	157
ORV/ATV Driver Hazardous Action.....	157
Michigan Farm Equipment Crashes	158
Michigan Vehicle-Train Crashes.....	158
Motorcycle.....	158
Driver Gender Information - All Crashes	159
Person Age: Demographics and Crash Involvements	160
Crash Rate per Licensed Driver by Age of Driver in All Crashes	161
Reported Age of Drivers Involved in All Crashes by County	162
Driver Age	164
Driver Condition	165
Driver Injury Severity by Restraint, Alcohol, and Drug Use.....	165
Registration Transactions	166
OCCUPANT/PERSON - <i>Specific information on each driver and injured person in a crash</i>	
Age & Gender of Occupants Killed & Injured in Motor Vehicle Crashes	171
Reported Occupant Restraint Usage for All Drivers and Injured Passengers.....	172
Motor Vehicle Occupants & Injury Severity by Seating Position and Known Belt Usage	173
Reported Restraint Use - Children	174
Motor Vehicle Occupant Injury Severity by Known Airbag Deployment	175
Age & Gender of Motorcyclists Killed & Injured in Motor Vehicle Crashes.....	176
Motorcycle Helmet Use and Injury Severity	177
Occupant Injury Outcome by Vehicle Type	178
REFERENCES	
References and Reporting Agencies.....	181
Resources.....	182
INDEX	
Index.....	185