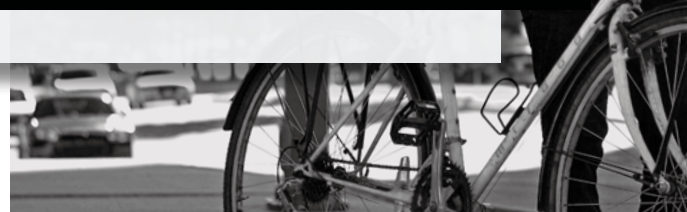
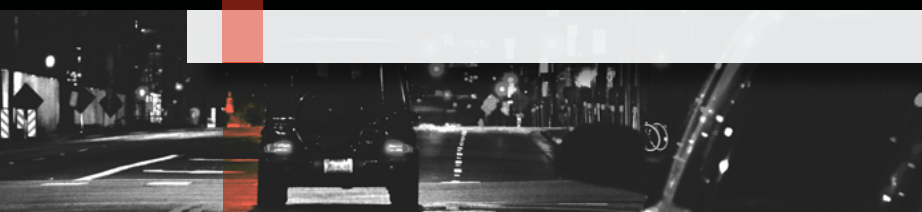
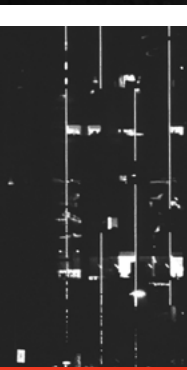
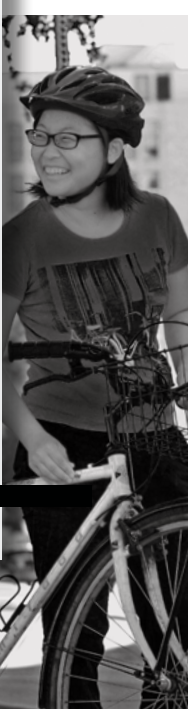


NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

ROADWAY SAFETY PLAN APPENDICES



APPENDICES

A1. Emphasis Area Data.....	1
Intersection Safety.....	1
Roadway and Lane Departures	5
Speeding.....	9
Occupant Protection	13
Motorcycles	18
Bicyclist and Pedestrian Safety.....	20
Impaired Driving.....	26
Distracted Driving	30
A2. Countermeasure or Strategy Selection.....	35
Speeding Proven Countermeasures.....	39
Roadway Departure Proven Countermeasures	46
Intersection Proven Safety Countermeasures.....	47
Pedestrian and Bicyclist Proven Safety Countermeasures.....	48
A3. Additional High Injury Network Maps and Table	50
A4. Regional Transportation Council Regionwide Safety Program Funding Table	65
A5. Existing NCTCOG Safety Efforts	72
Safety Outreach and Education	72
Traffic Incident Management.....	72
Mobility Assistance Patrol Program	73
Commercial Vehicle Enforcement.....	74
Collaboration Efforts	75
Statewide Safety Initiatives	75

LIST OF FIGURES

Figure A1 Intersection-Related Crash Tree.....	1
Figure A2 Intersection-Related Fatal and Serious Injuries by Time of Day and Day of Week	2
Figure A3 Intersection-Related Fatal and Serious Injuries Among Drivers by Age and Gender.....	2
Figure A4 Intersection-Related Fatal and Serious Injuries by Ethnicity	3
Figure A5 Intersection-Related Fatal and Serious Injuries by Month and Year.....	3
Figure A6 Intersection-Related Fatal and Serious Injuries	4
Figure A7 Roadway and Lane Departure-Related Crash Tree.....	5
Figure A8 Roadway and Lane Departure Fatal and Serious Injuries by Time of Day and Day of Week	6
Figure A9 Roadway and Lane Departure Fatal and Serious Injuries Among Drivers by Age and Gender.....	6
Figure A10 Roadway and Lane Departure Fatal and Serious Injuries by Ethnicity	7
Figure A11 Roadway and Lane Departure Fatal and Serious Injuries by Lighting Conditions	7
Figure A12 Roadway and Lane Departure Fatal and Serious Injuries by Month and Year	8
Figure A13 Roadway and Lane Departure-Related Fatal and Serious Injuries	8
Figure A14 Speeding-Related Crash Tree	9
Figure A15 Age and Gender of Drivers Involved in Speeding-Related Crashes.....	10
Figure A16 Ethnicity of Drivers Involved in Speeding-Related Crashes	10
Figure A17 Speeding-Related Fatal and Serious Injuries by Lighting Conditions	11
Figure A18 Speeding-Related Fatal and Serious Injuries by Month and Year	11
Figure A19 Speeding-Related Fatal and Serious Injuries	12
Figure A20 Occupant Protection Crash Tree	13
Figure A21 Occupant Protection Fatal and Serious Injuries by Time of Day and Day of Week.....	14
Figure A22 Occupant Protection Fatal and Serious Injuries by Age and Gender	14
Figure A23 Occupant Protection Fatal and Serious Injuries by Ethnicity.....	15
Figure A24 Occupant Protection Fatal and Serious Injuries by Lighting Conditions.....	15
Figure A25 Occupant Protection by Month and Year.....	16

Figure A26 Occupant Protection Related Fatal and Serious Injuries	17
Figure A27 Motorcycle-Related Crash Tree.....	18
Figure 28 Motorcycle-Related Fatal and Serious Injuries by Time of Day and Day of Week	18
Figure A29 Motorcycle Fatal and Serious Injuries by Age and Gender	19
Figure A30 Motorcycle-Related Fatal and Serious Injuries by Helmet Usage	19
Figure A31 Motorcycle-Related Fatal and Serious Injuries	20
Figure A32 Bicyclist and Pedestrian Crash Tree	21
Figure A33 Bicyclist and Pedestrian Fatal and Serious Injuries by Time of Day and Day of Week	22
Figure A34 Bicyclist Fatal and Serious Injuries by Age and Gender	22
Figure A35 Pedestrian Fatal and Serious Injuries by Age and Gender.....	23
Figure A36 Bicyclist Fatal and Serious Injury by Ethnicity per 100,000	23
Figure A37 Pedestrian Fatal and Serious Injuries by Ethnicity per 100,000	24
Figure A38 Bicyclist and Pedestrian Fatal and Serious Injuries by Month and Year	24
Figure A39 Bicyclist and Pedestrian Related Fatal and Serious Injuries.....	25
Figure A40 Impaired Driving Crash Tree	26
Figure A41 Impaired Driving Fatal and Serious Injuries by Time of Day and Day of Week	26
Figure A42 Impaired Drivers Fatal and Serious Injuries by Age and Gender	27
Figure A43 Impaired Driving Related Fatal and Serious Injuries by Ethnicity.....	27
Figure A44 Impaired Driving Fatal and Serious Injuries by Lighting Conditions	28
Figure A45 Impaired Driving Related Fatal and Serious Injuries by Month and Year	28
Figure A46 Impaired Driving Related Fatal and Serious Injuries.....	29
Figure A47 Distracted Driving Crash Tree	30
Figure A48 Distracted Driving Fatal and Serious Injuries by Time of Day and Day of Week.....	31
Figure A49 Distracted Driving Fatal and Serious Injuries by Age and Gender	32
Figure A50 Distracted Driving Fatal and Serious Injuries by Ethnicity.....	33
Figure A51 Distracted Driving Fatal and Serious Injuries by Month and Year	33

Figure A52: Distracted Driving Fatal and Serious Injuries.....34

Table A1 Recommended Countermeasures by Emphasis Area.....35

Figure A53 High Injury Network Roadway Segments - Dallas County50

Figure A54 High Injury Network Roadway Segments - Tarrant County51

Figure A55 High Injury Network Roadway Segments - Denton and Collin Counties.....52

Table A2 High Injury Network Roadway Segments Prioritization Table.....53

Table A3 NCTCOG Safety Program Funding (FY24-FY26).....65

Figure A56 Mobility Assistance Patrol Routes74



A1. EMPHASIS AREA DATA

Additional Data and Full Crash Trees

Presented below are additional analysis performed for each of the eight emphasis areas of the Roadway Safety Plan. Each emphasis area section presents a comprehensive look at the analysis performed, including crash trees, crash location maps, demographics, time of day analysis, crashes over time, and any other data that was of interest. All charts, maps, and figures include fatal and serious injuries within the 12-county MPA between 2016-2020.

Intersection safety

Figure A1 Intersection-Related Crash Tree

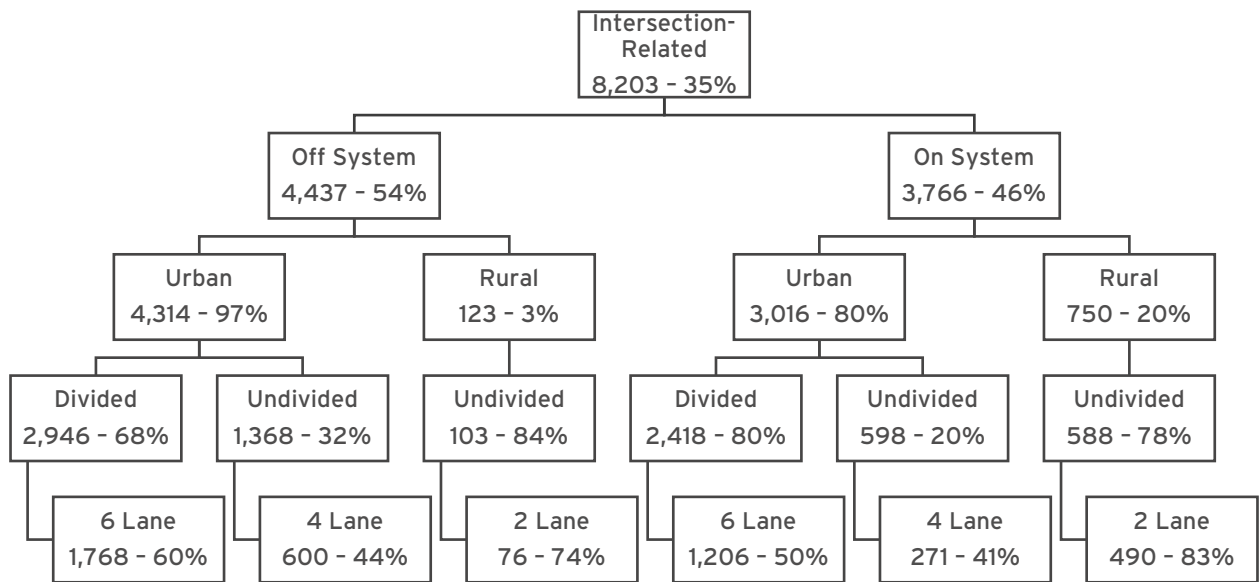


Figure A2 Intersection-Related Fatal and Serious Injuries by Time of Day and Day of Week

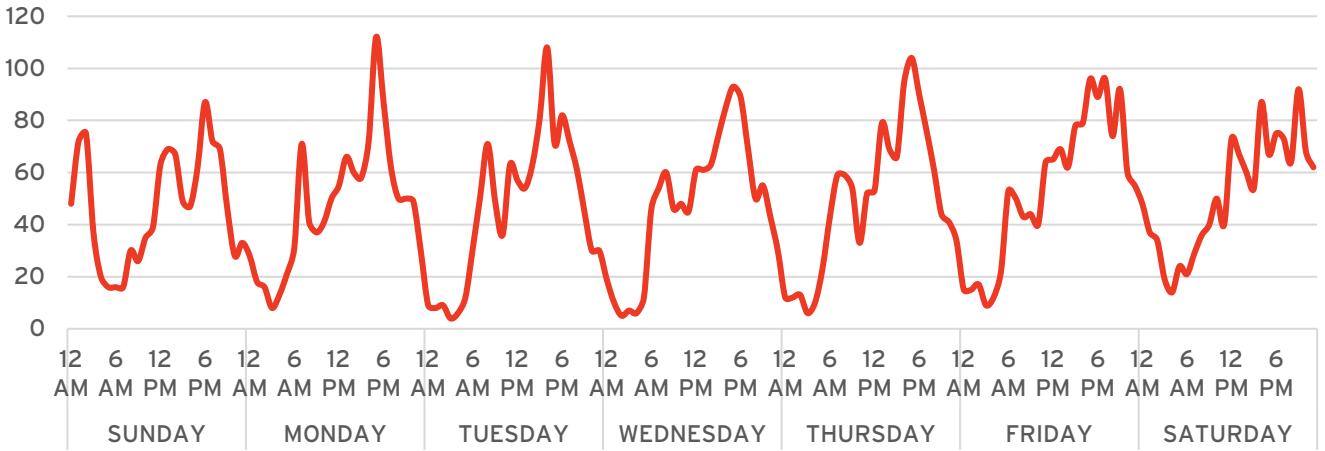


Figure A3 Intersection-Related Fatal and Serious Injuries Among Drivers by Age and Gender

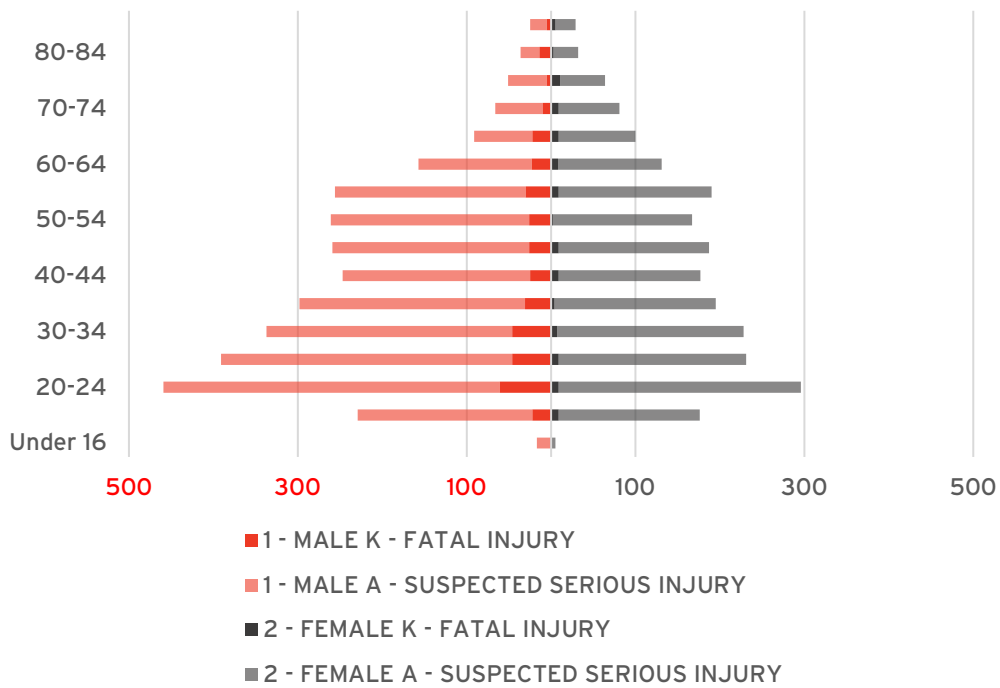


Figure A4 Intersection-Related Fatal and Serious Injuries by Ethnicity

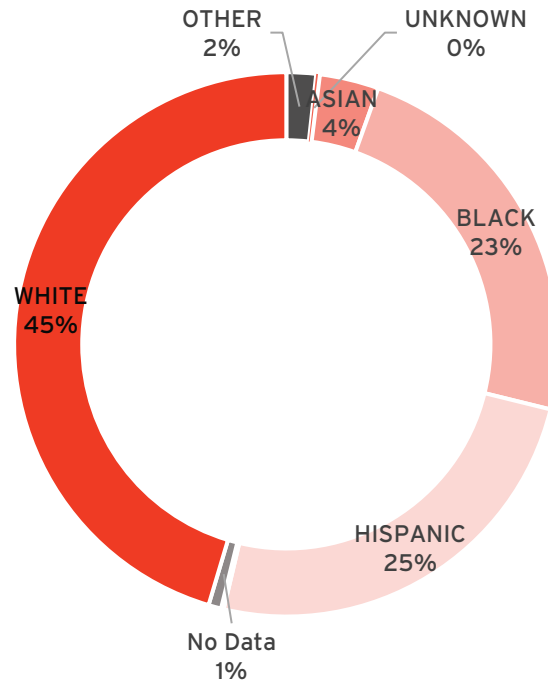


Figure A5 Intersection-Related Fatal and Serious Injuries by Month and Year

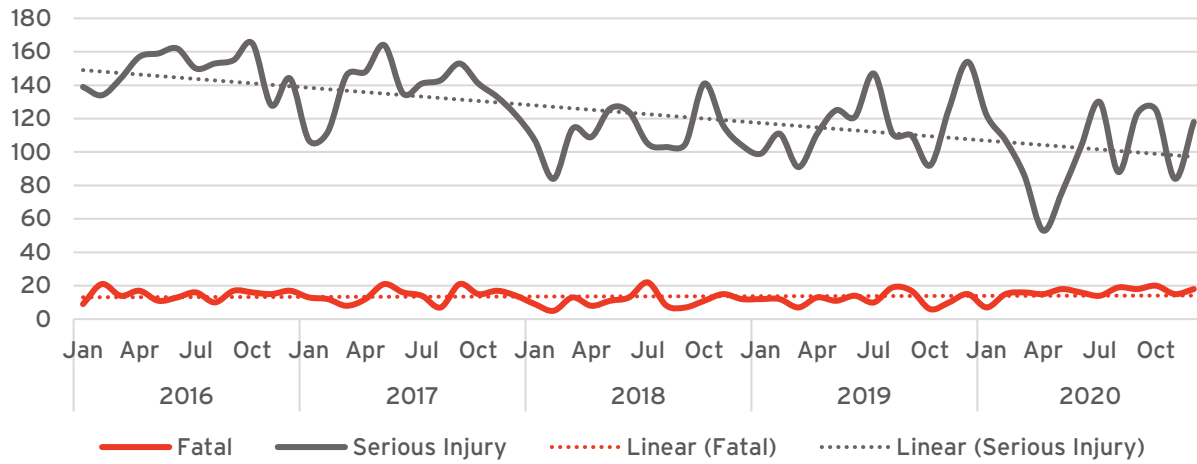
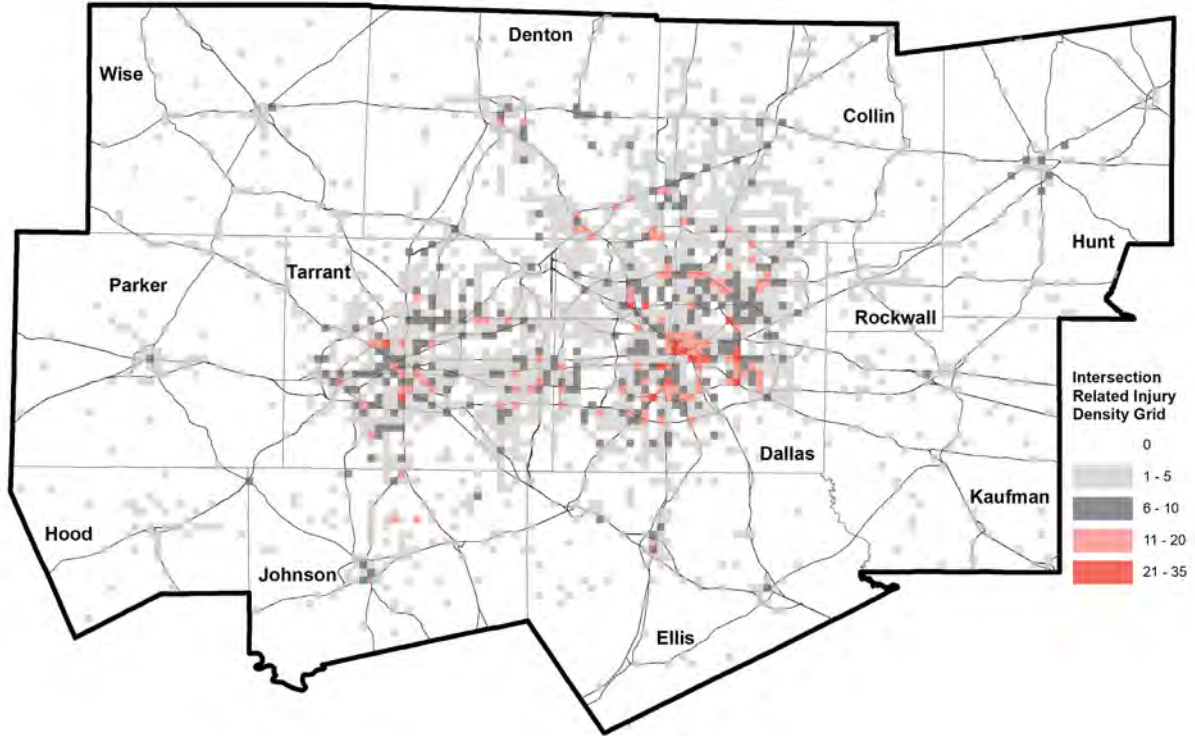


Figure A6 Intersection-Related Fatal and Serious Injuries



Roadway and Lane Departures

Figure A7 Roadway and Lane Departure-Related Crash Tree

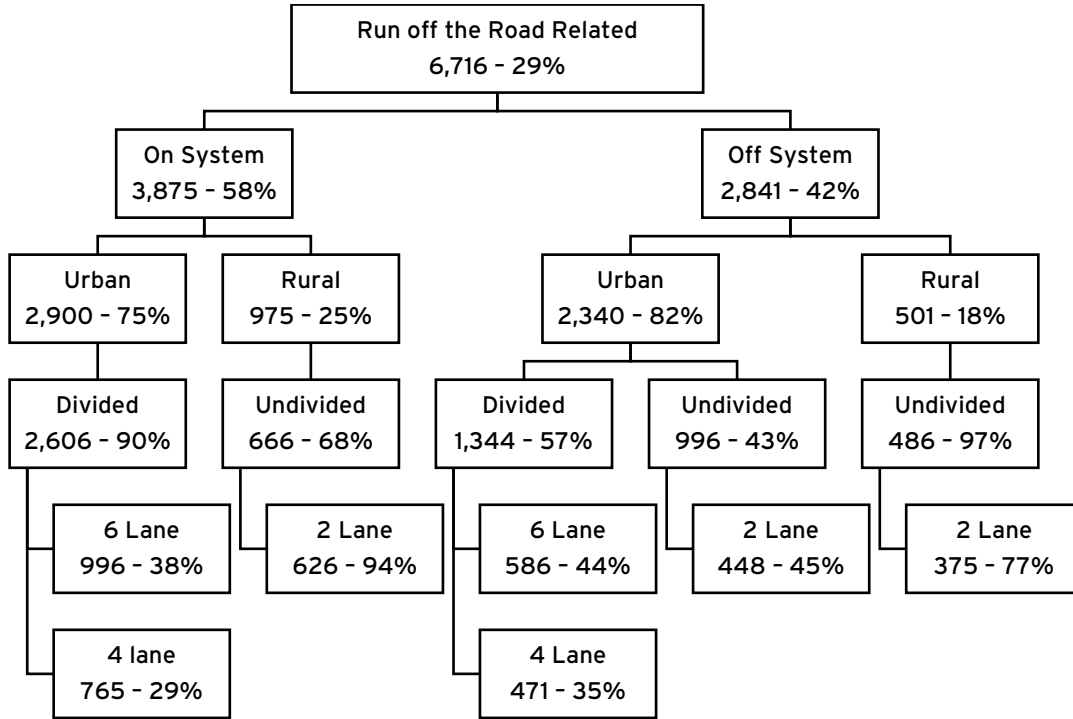


Figure A8 Roadway and Lane Departure Fatal and Serious Injuries by Time of Day and Day of Week

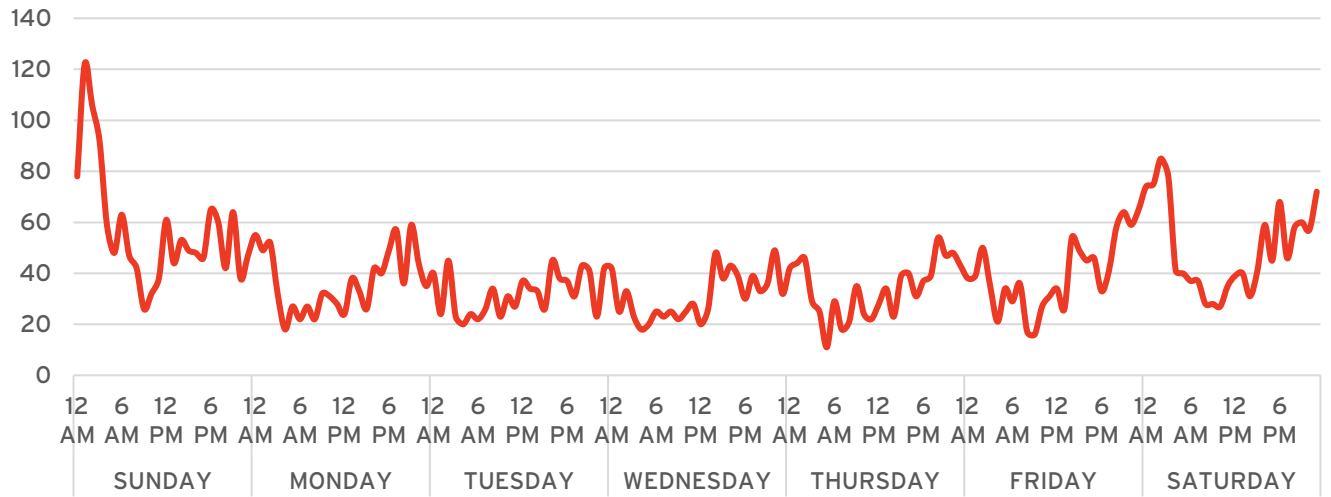


Figure A9 Roadway and Lane Departure Fatal and Serious Injuries Among Drivers by Age and Gender

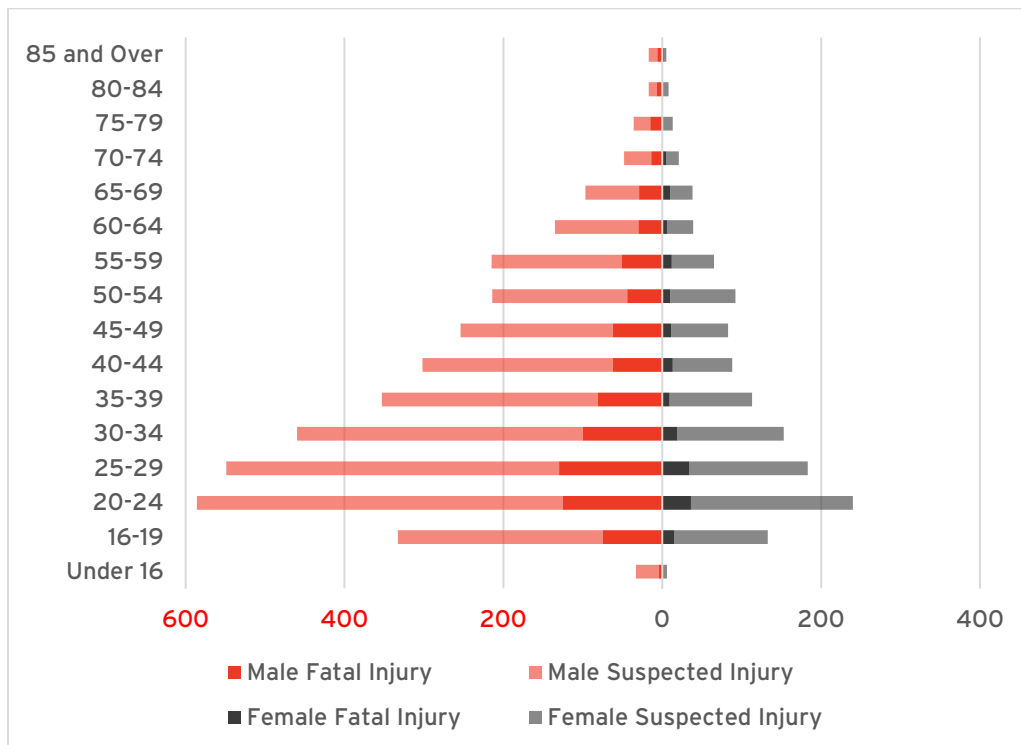


Figure A10 Roadway and Lane Departure Fatal and Serious Injuries by Ethnicity

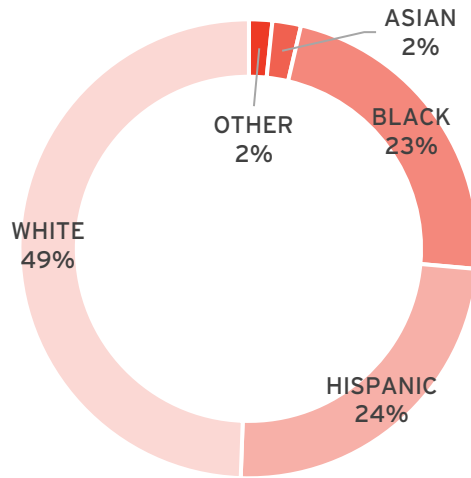


Figure A11 Roadway and Lane Departure Fatal and Serious Injuries by Lighting Conditions

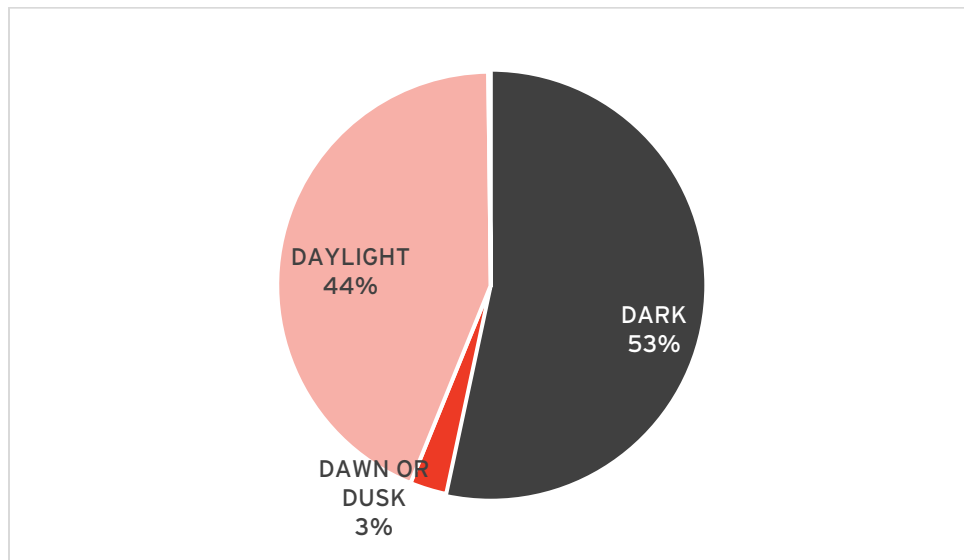


Figure A12 Roadway and Lane Departure Fatal and Serious Injuries by Month and Year

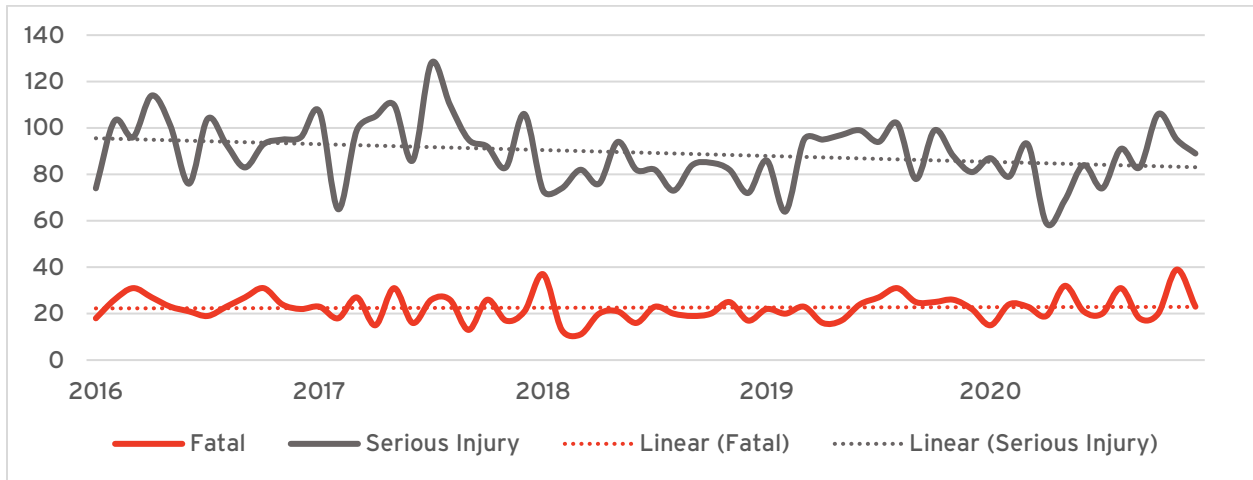


Figure A13 Roadway and Lane Departure-Related Fatal and Serious Injuries

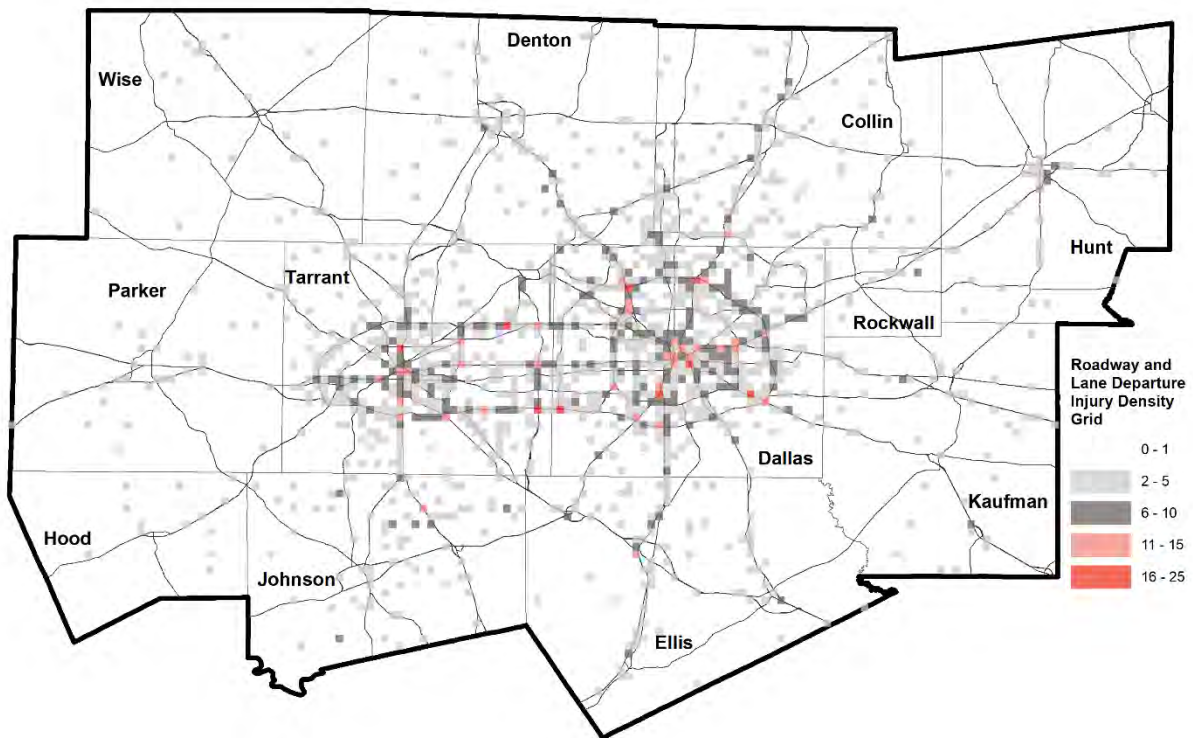


Figure A14 Speeding-Related Crash Tree

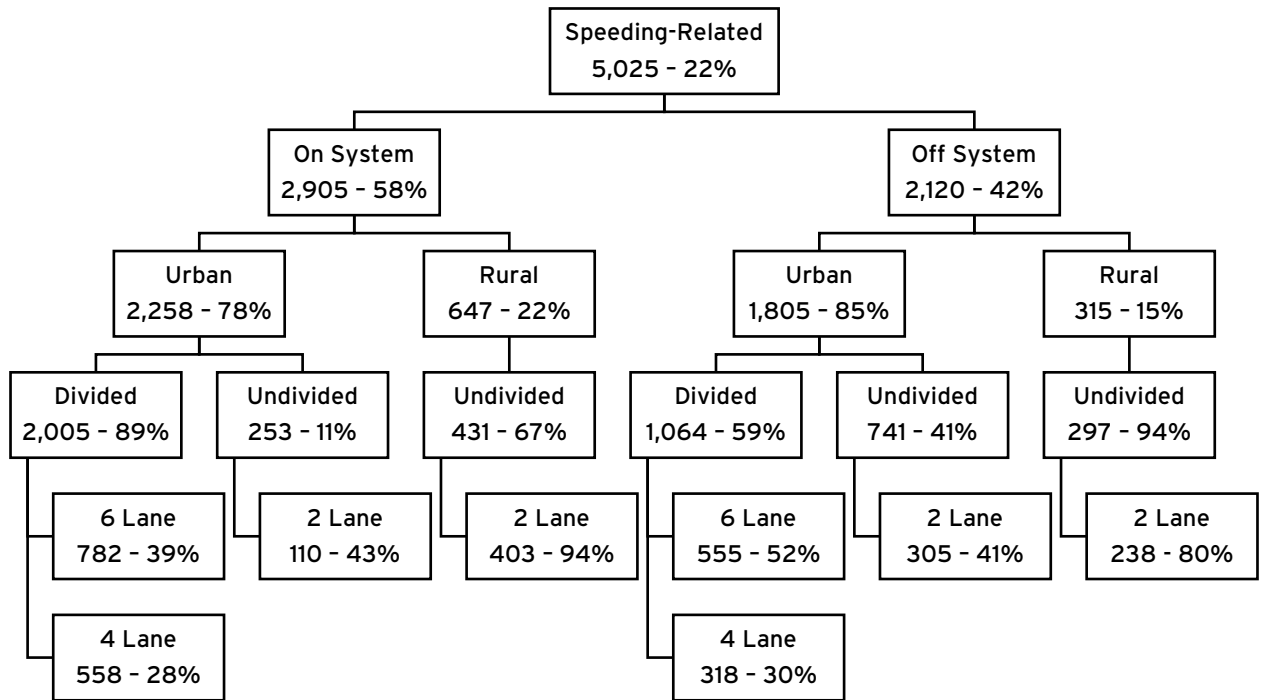


Figure A15 Age and Gender of Drivers Involved in Speeding-Related Crashes

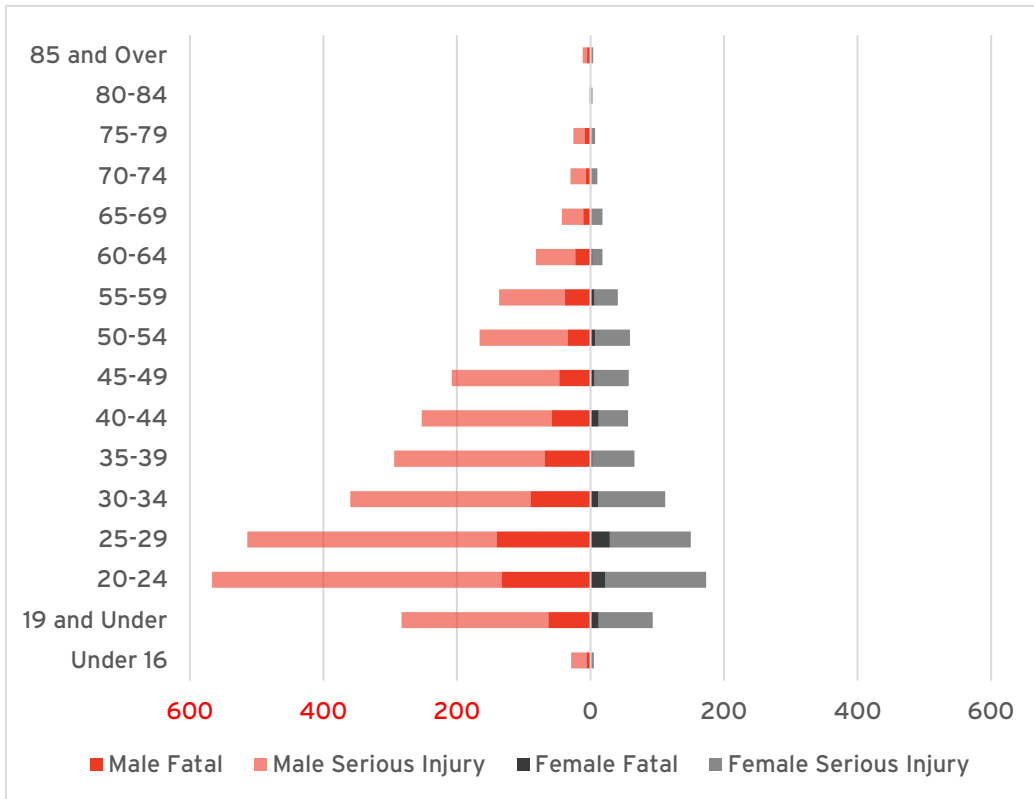


Figure A16 Ethnicity of Drivers Involved in Speeding-Related Crashes

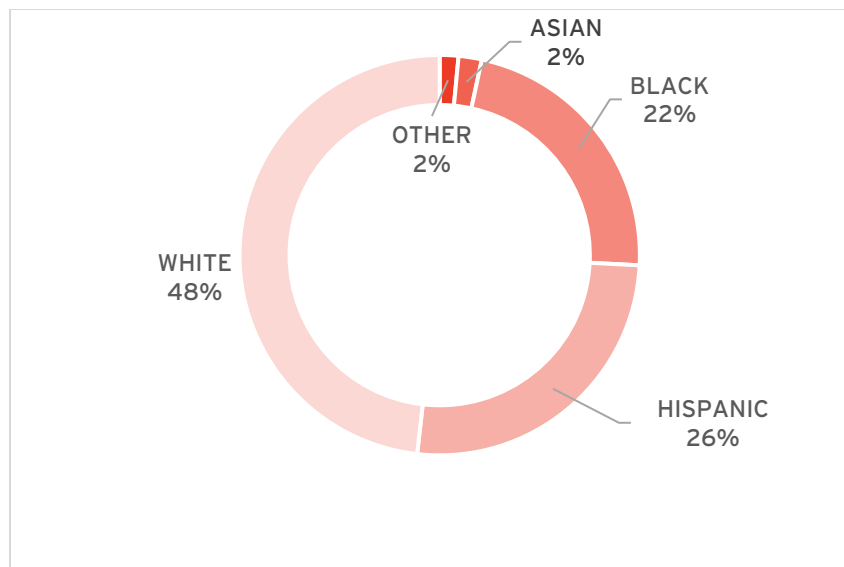


Figure A17 Speeding-Related Fatal and Serious Injuries by Lighting Conditions

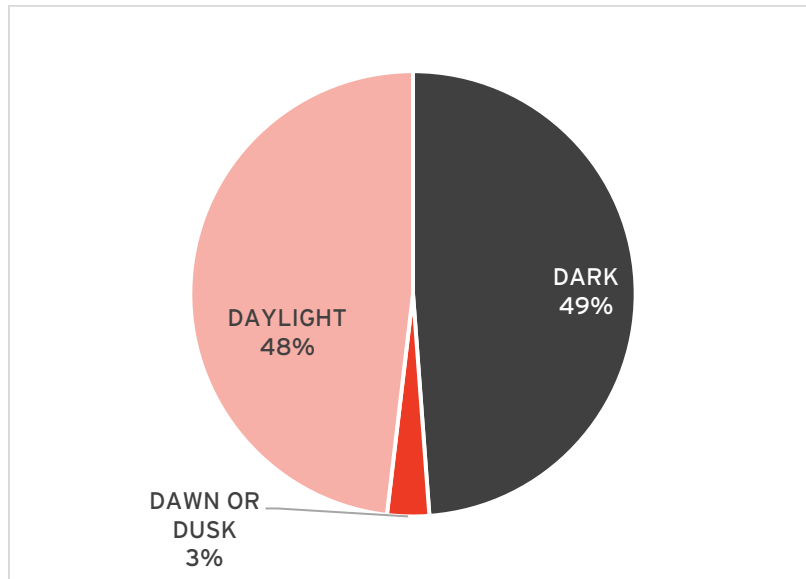


Figure A18 Speeding-Related Fatal and Serious Injuries by Month and Year

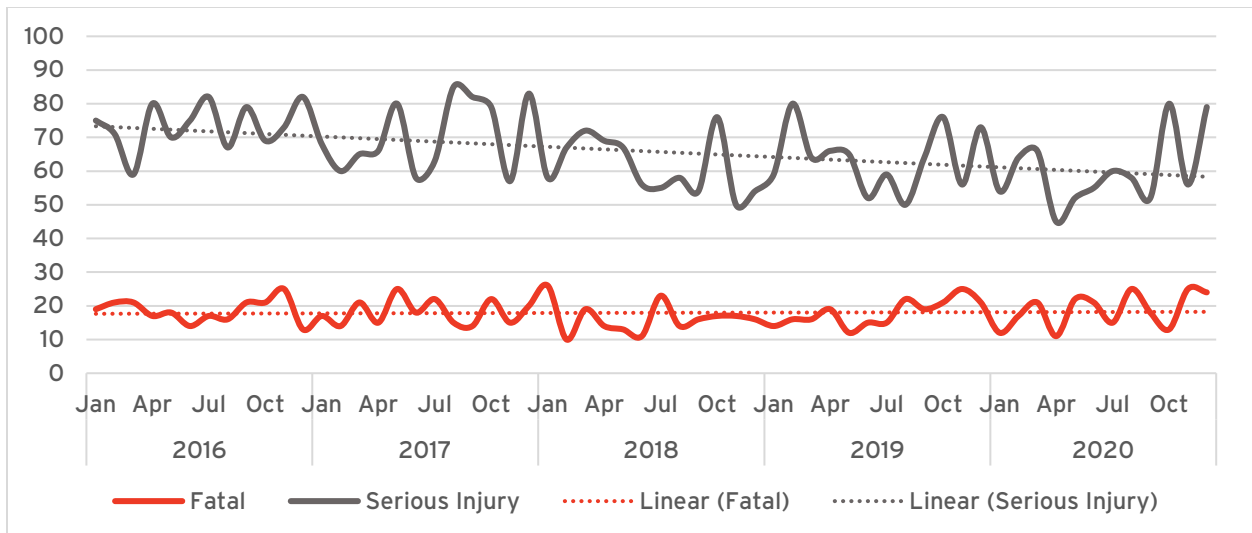
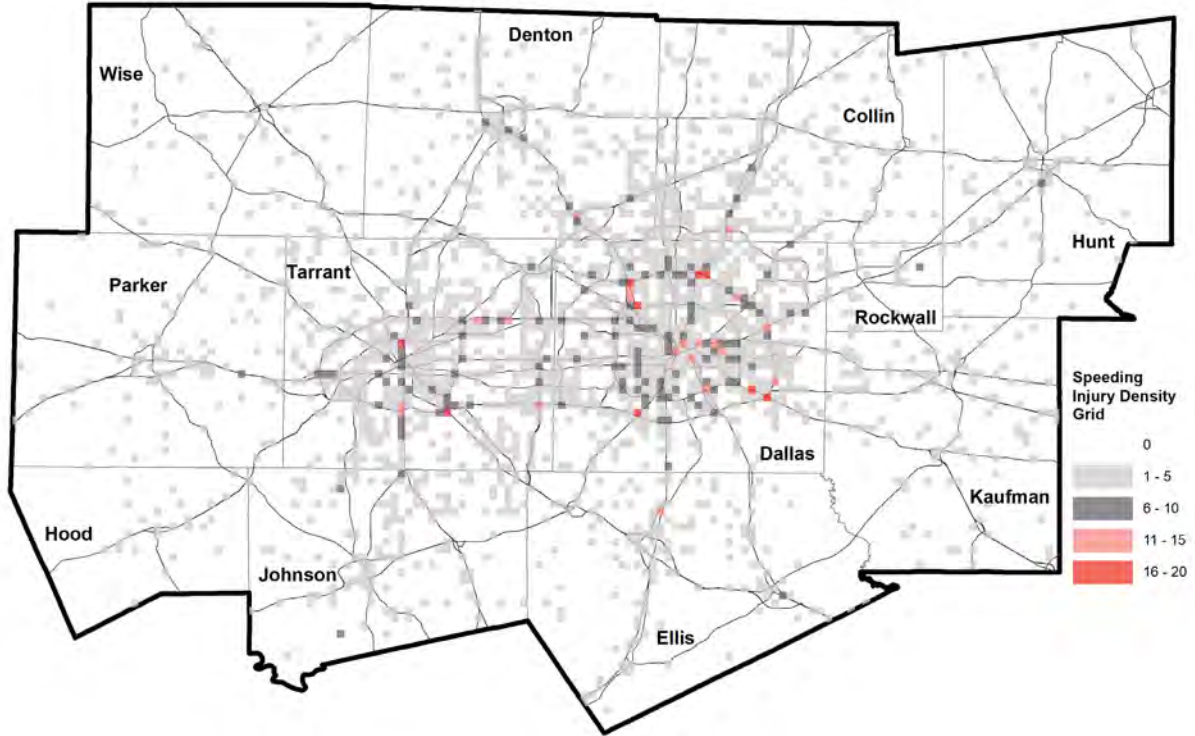


Figure A19 Speeding-Related Fatal and Serious Injuries



Occupant Protection

Figure A20 Occupant Protection Crash Tree

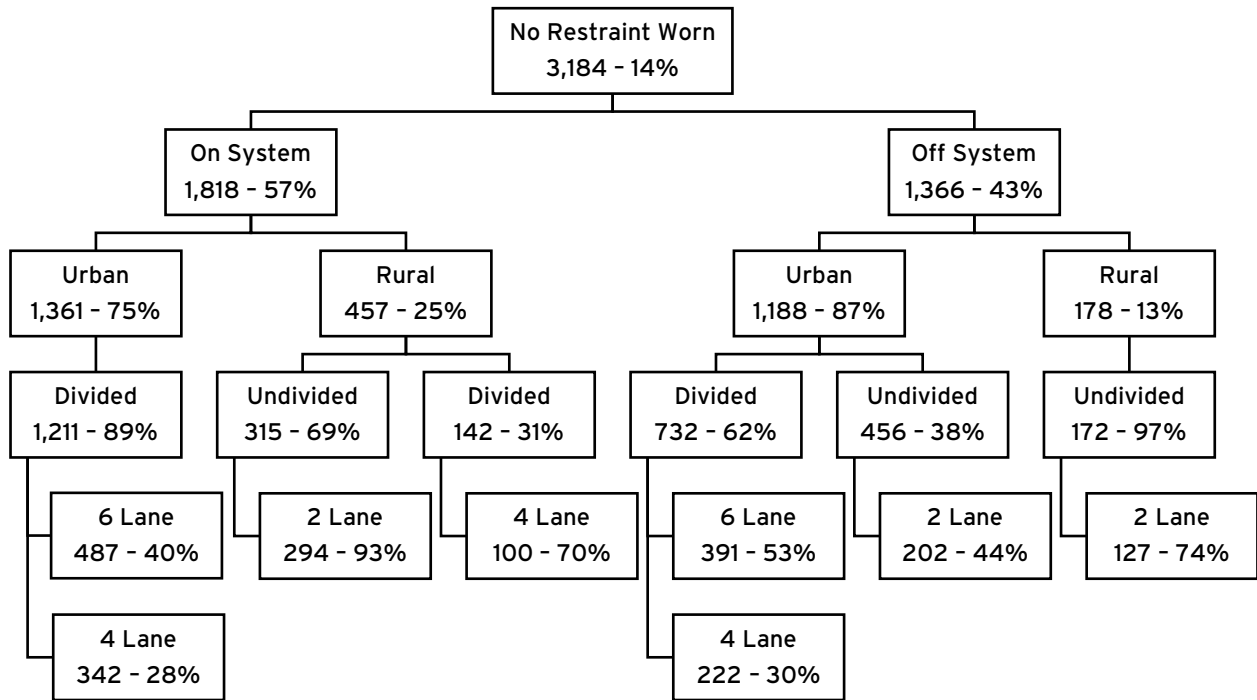


Figure A21 Occupant Protection Fatal and Serious Injuries by Time of Day and Day of Week

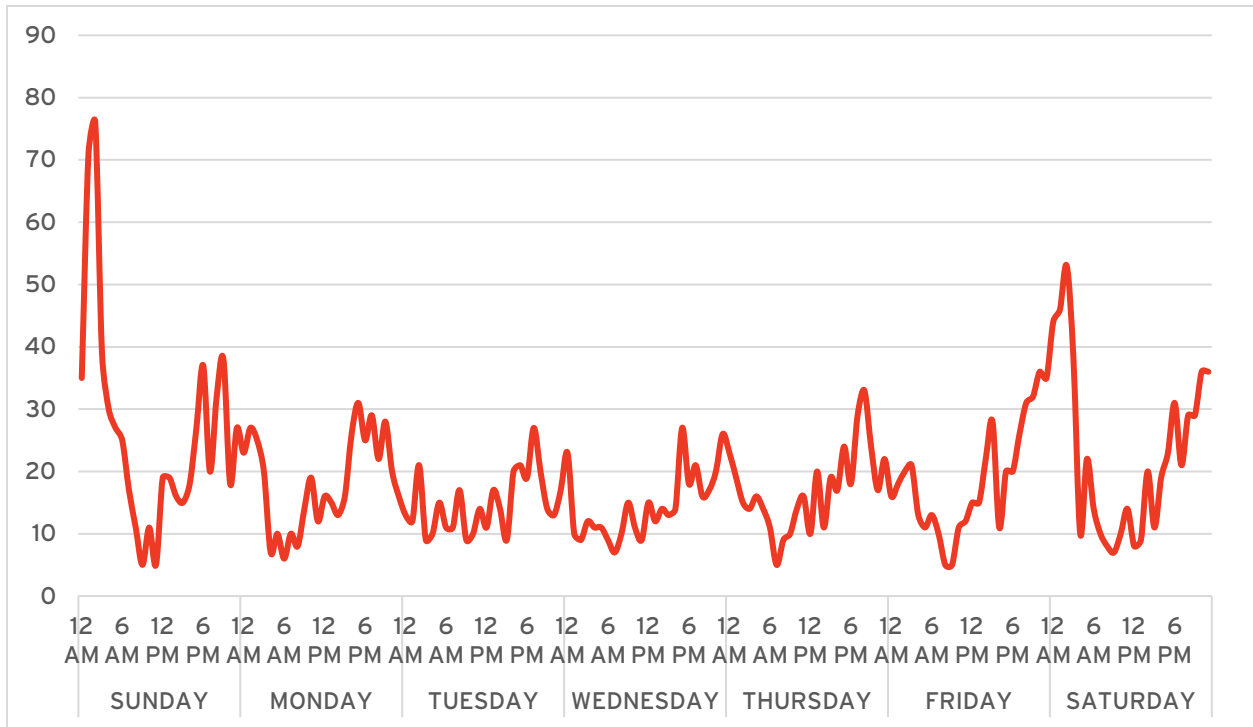


Figure A22 Occupant Protection Fatal and Serious Injuries by Age and Gender

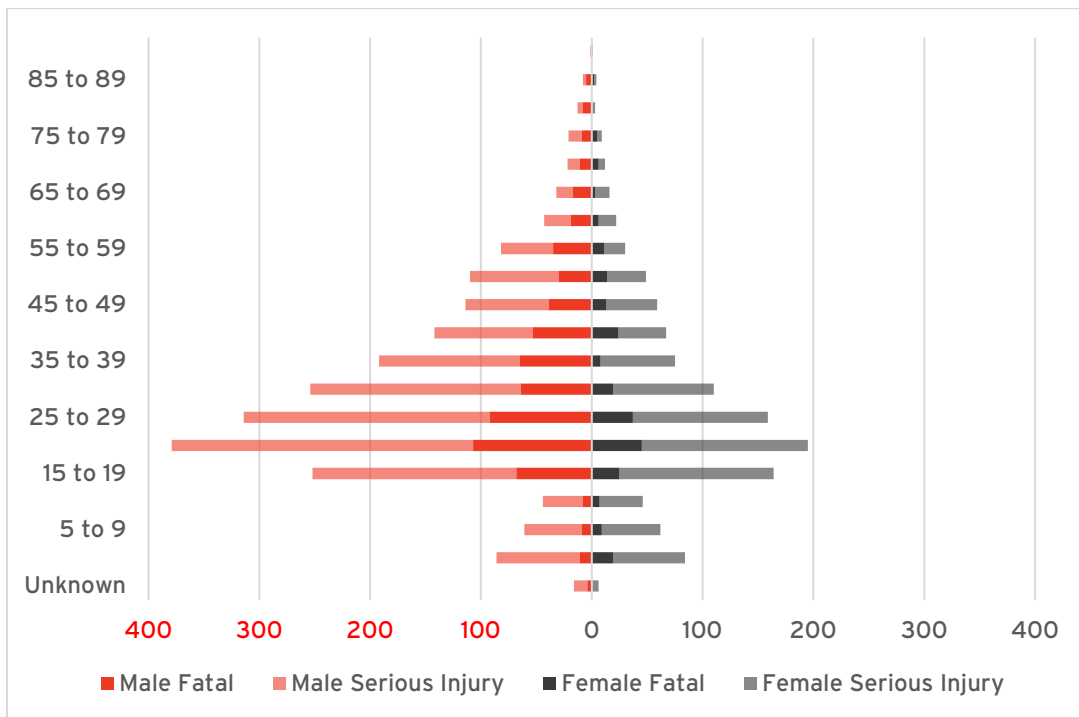


Figure A23 Occupant Protection Fatal and Serious Injuries by Ethnicity

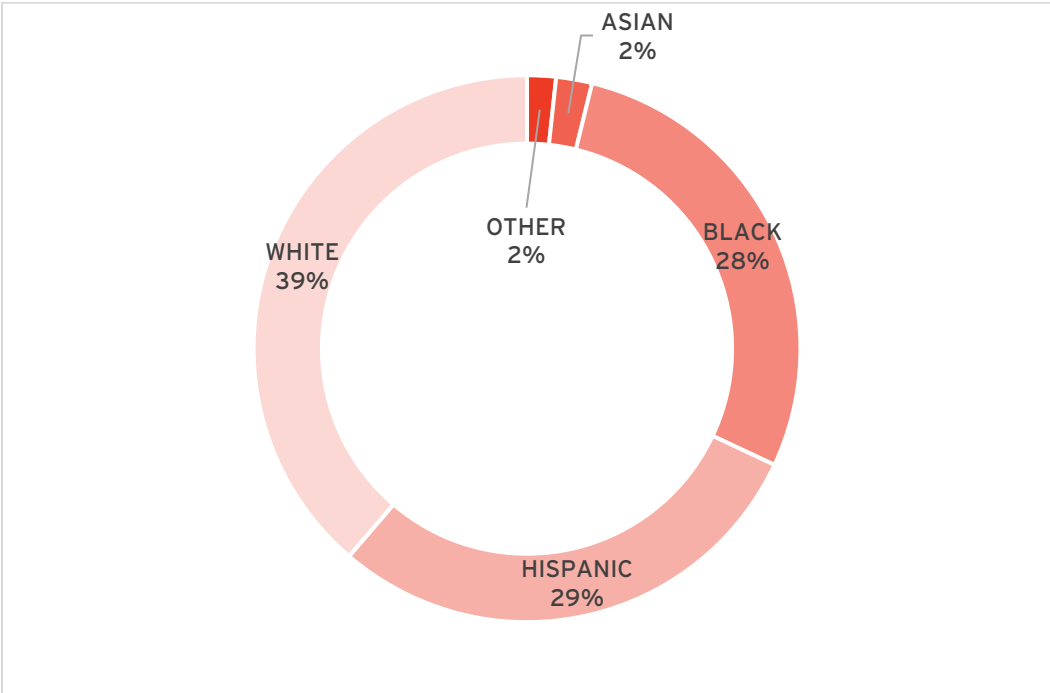


Figure A24 Occupant Protection Fatal and Serious Injuries by Lighting Conditions

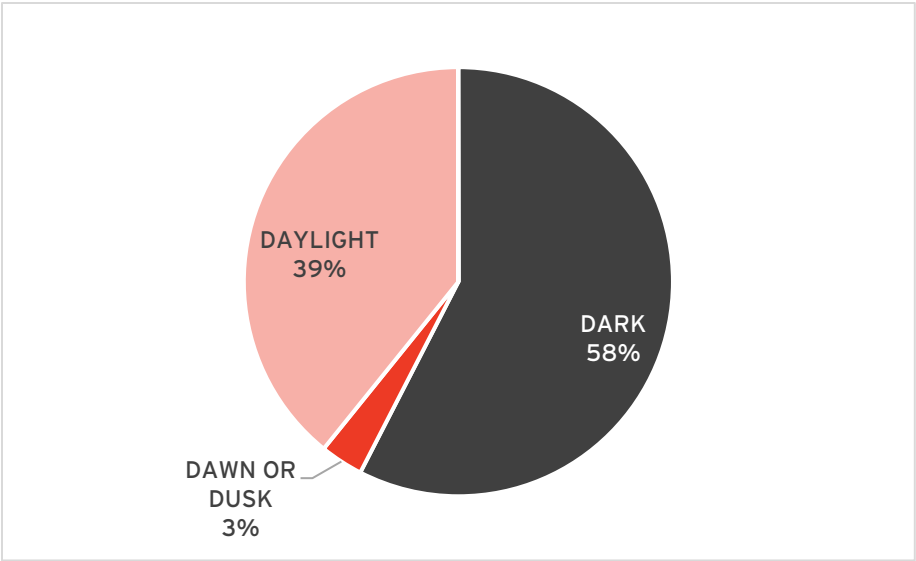


Figure A25 Occupant Protection by Month and Year

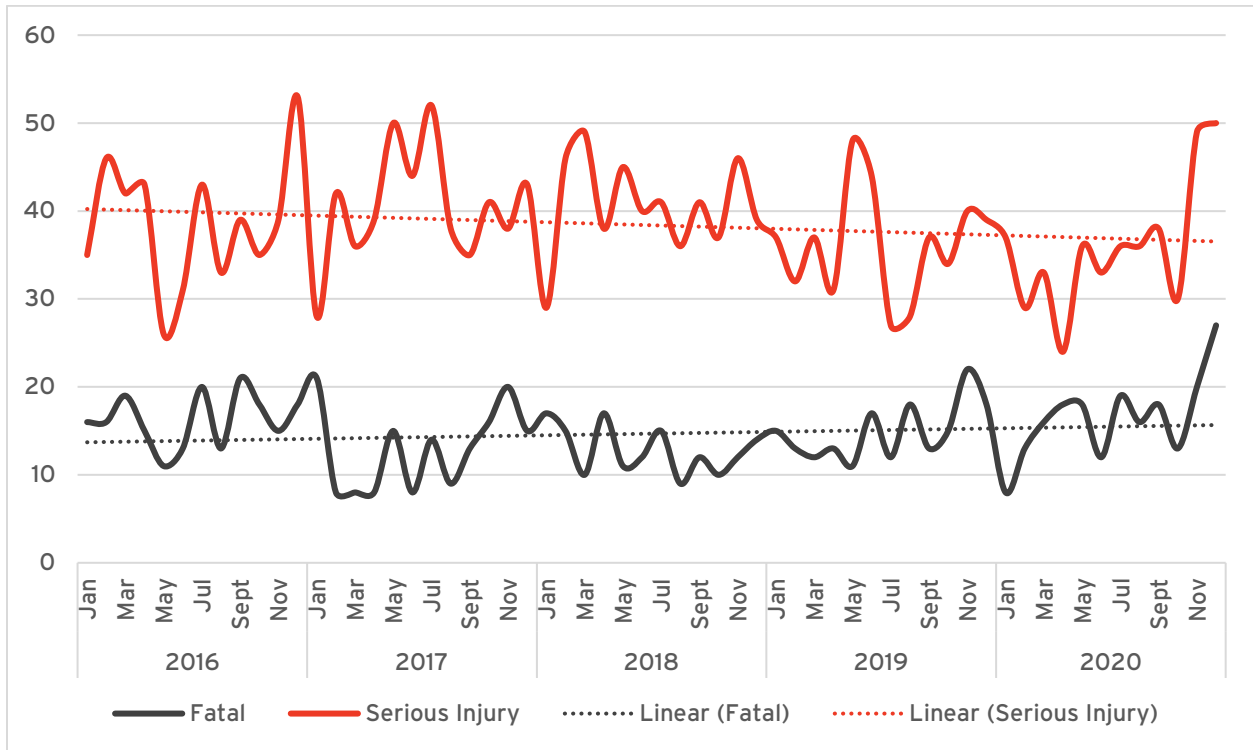
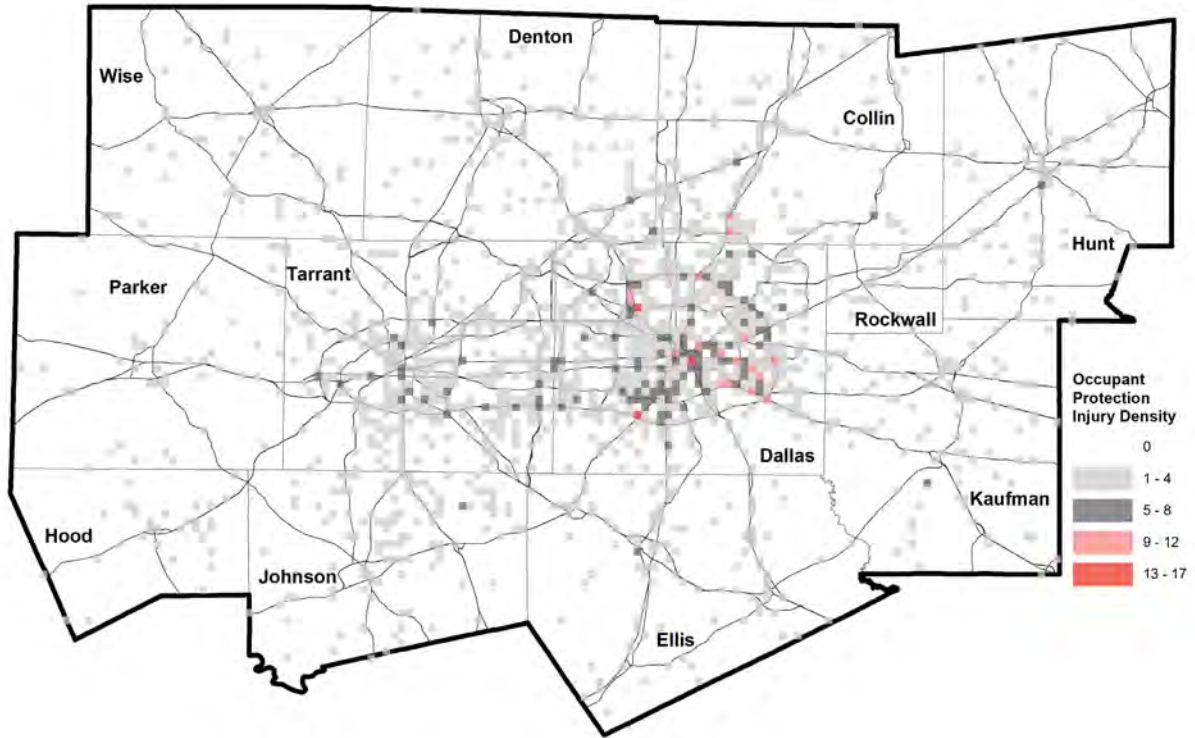


Figure A26 Occupant Protection Related Fatal and Serious Injuries



Motorcycles

Figure A27 Motorcycle-Related Crash Tree

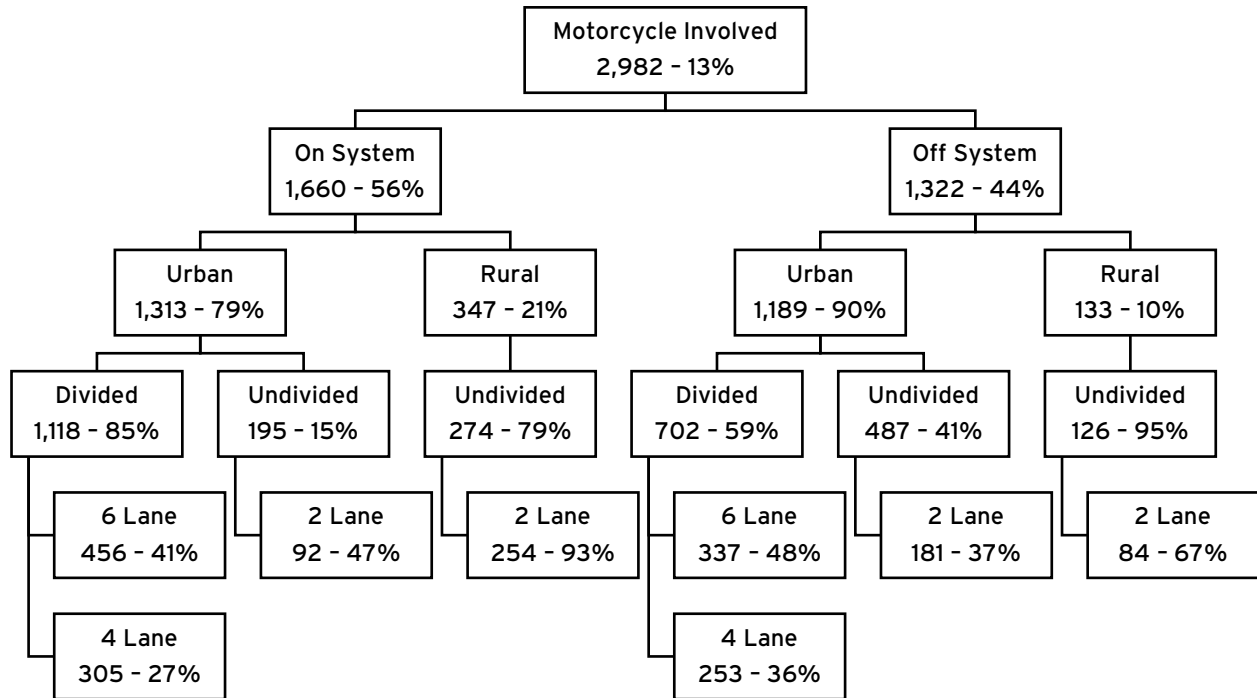


Figure 28 Motorcycle-Related Fatal and Serious Injuries by Time of Day and Day of Week

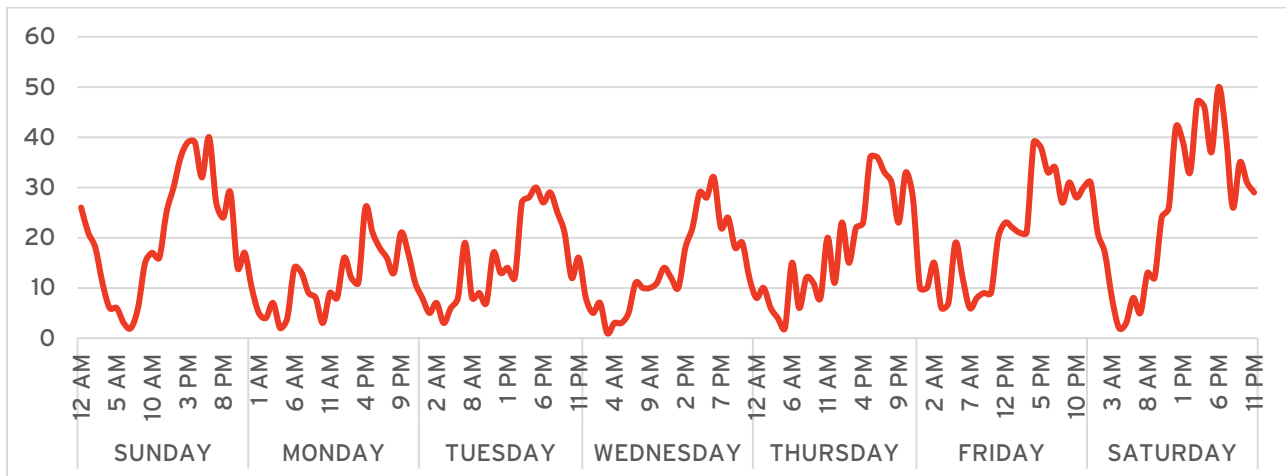


Figure A29 Motorcycle Fatal and Serious Injuries by Age and Gender

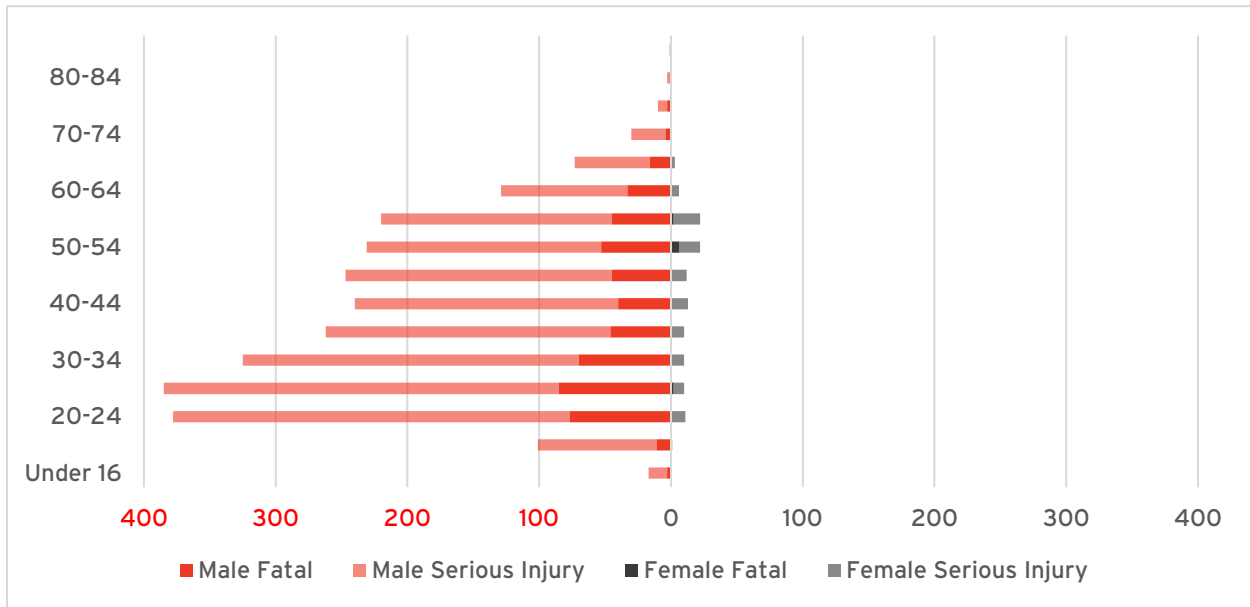


Figure A30 Motorcycle-Related Fatal and Serious Injuries by Helmet Usage

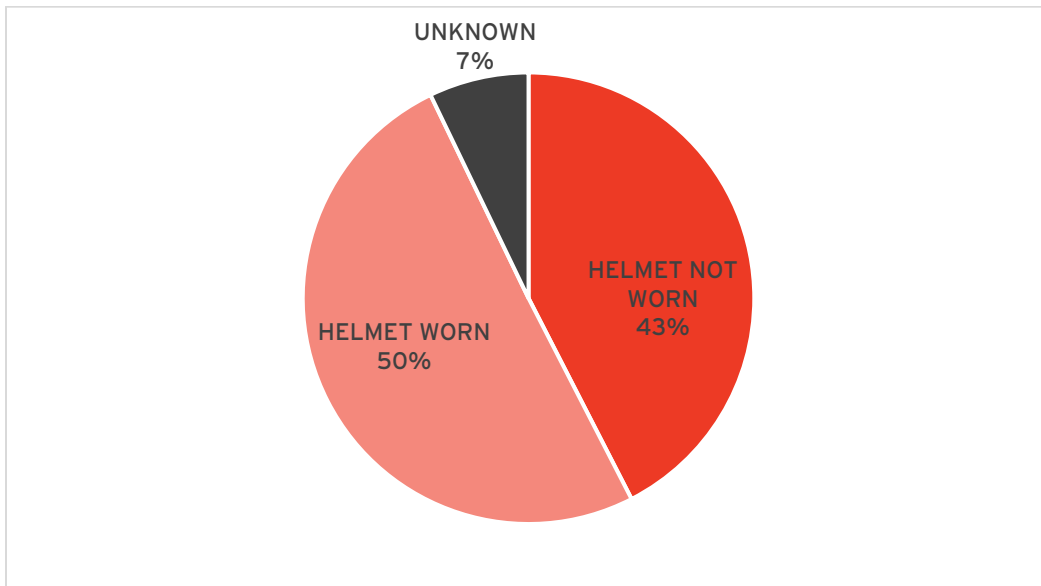


Figure A31 Motorcycle-Related Fatal and Serious Injuries

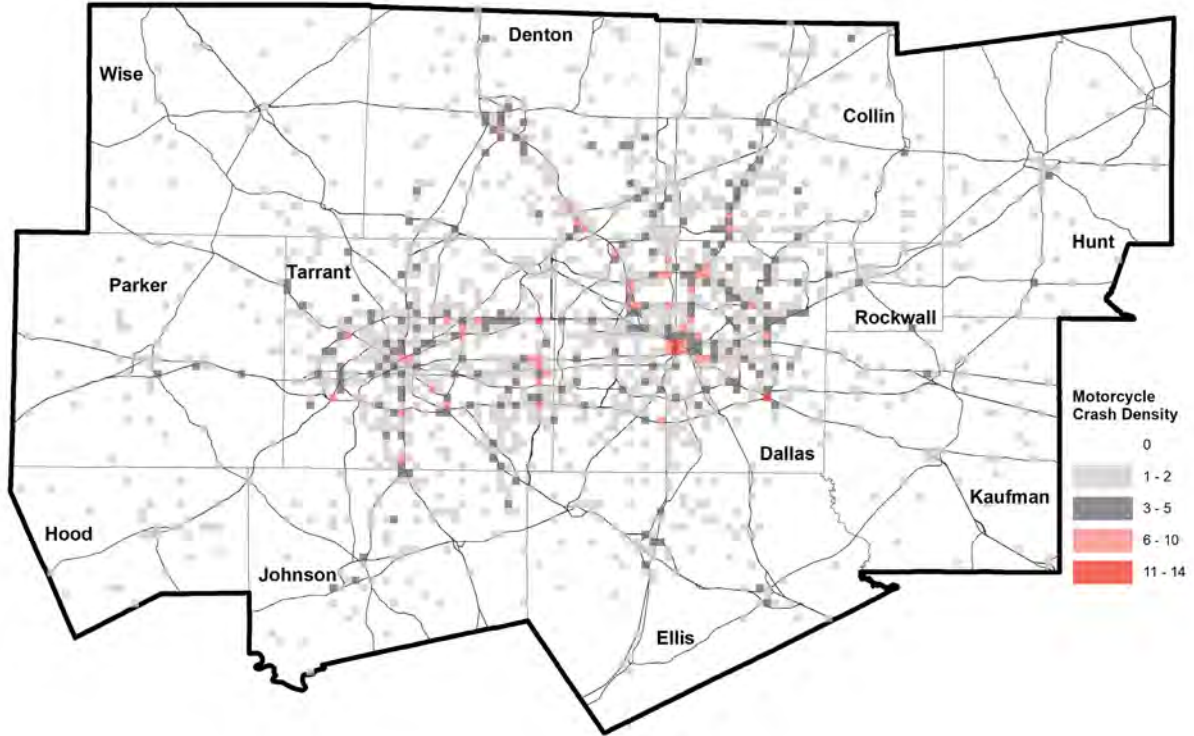


Figure A32 Bicyclist and Pedestrian Crash Tree

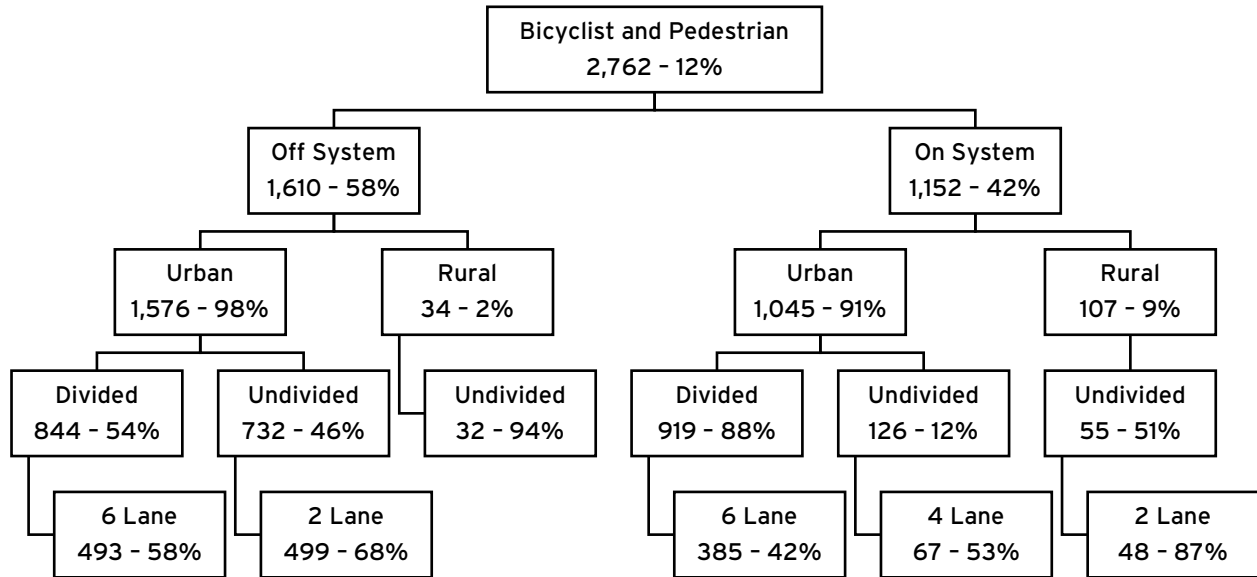


Figure A33 Bicyclist and Pedestrian Fatal and Serious Injuries by Time of Day and Day of Week

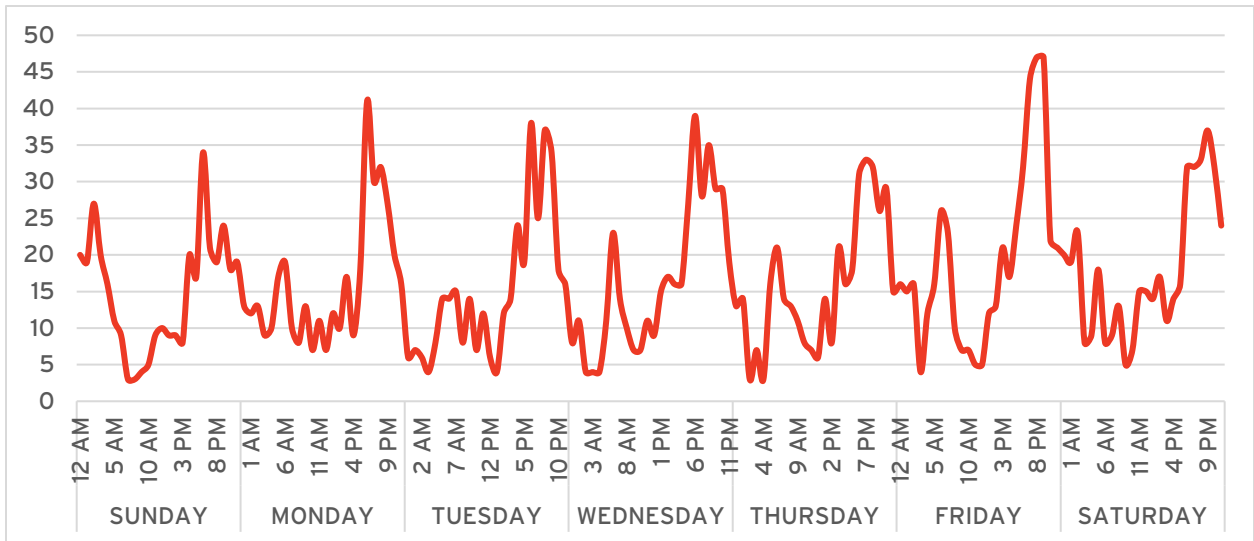


Figure A34 Bicyclist Fatal and Serious Injuries by Age and Gender

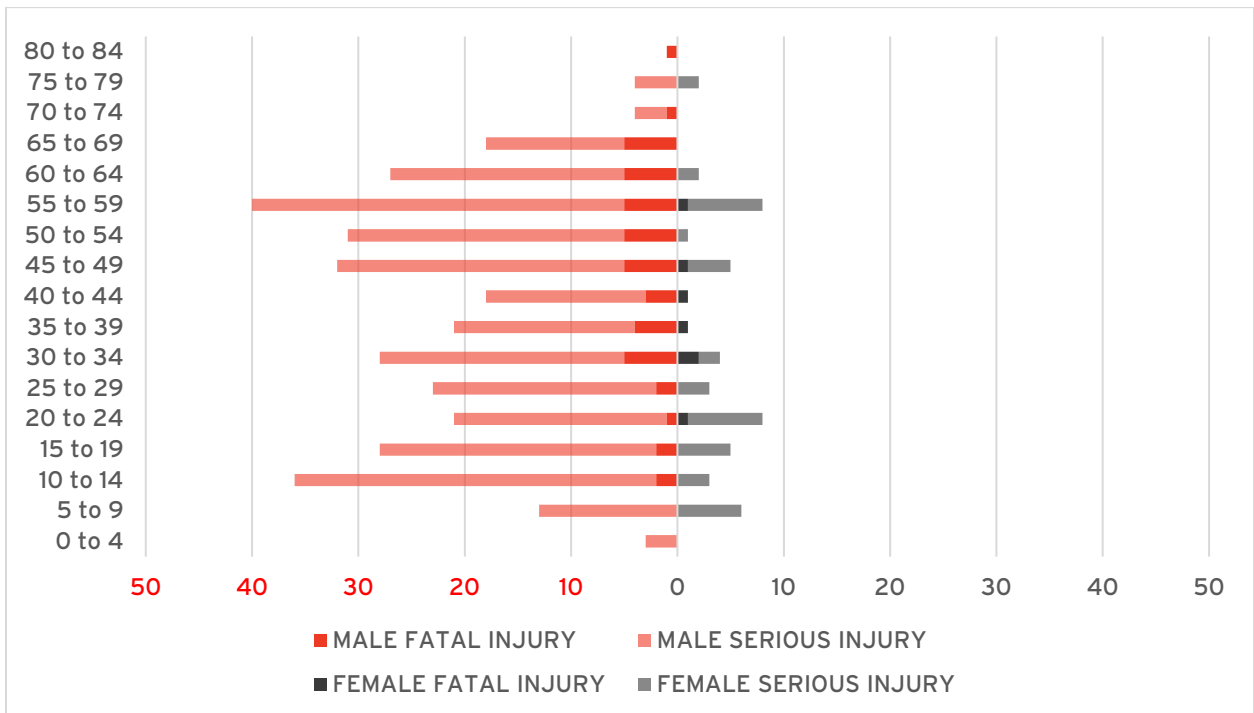


Figure A35 Pedestrian Fatal and Serious Injuries by Age and Gender

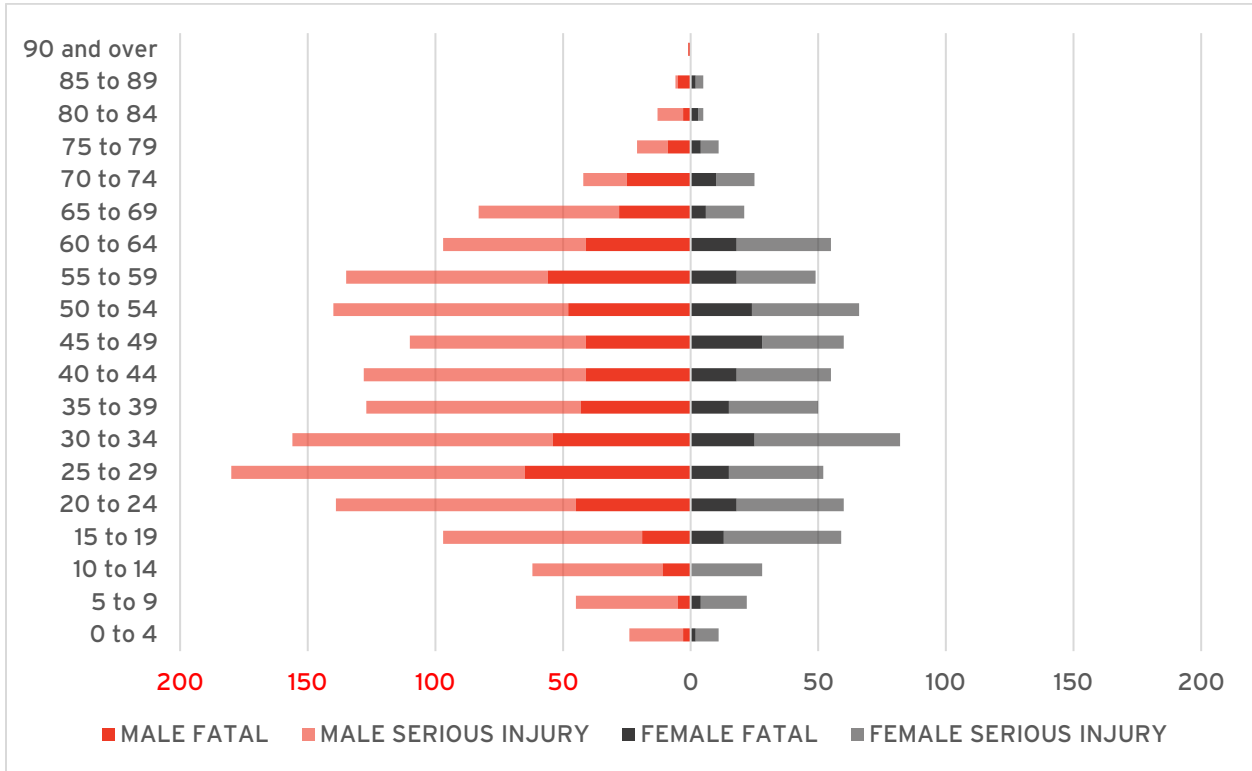


Figure A36 Bicyclist Fatal and Serious Injury by Ethnicity per 100,000

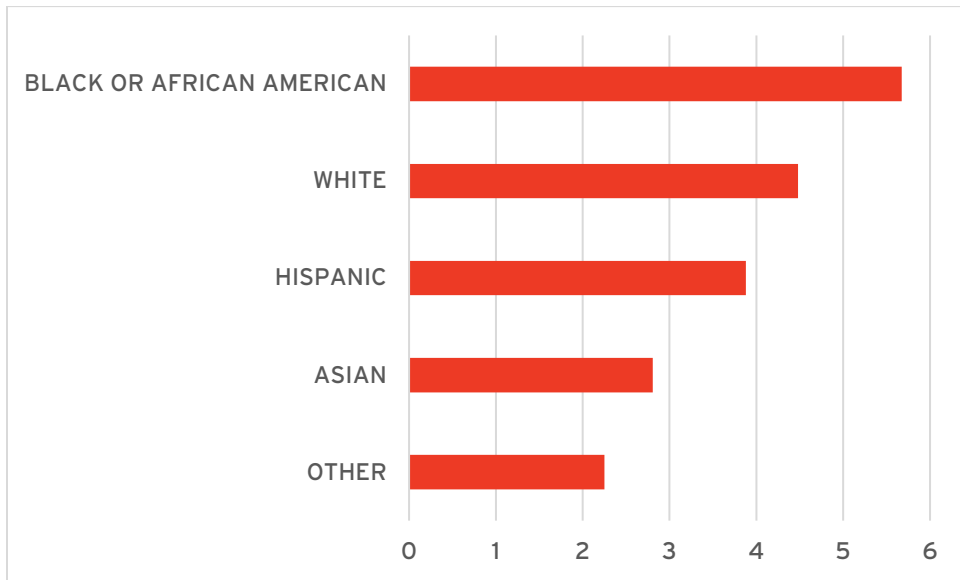


Figure A37 Pedestrian Fatal and Serious Injuries by Ethnicity per 100,000

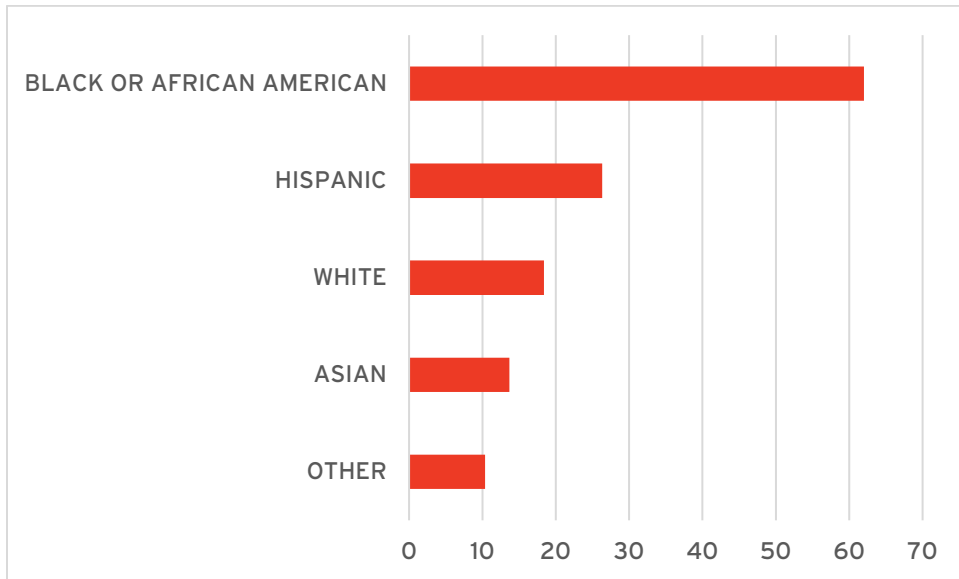


Figure A38 Bicyclist and Pedestrian Fatal and Serious Injuries by Month and Year

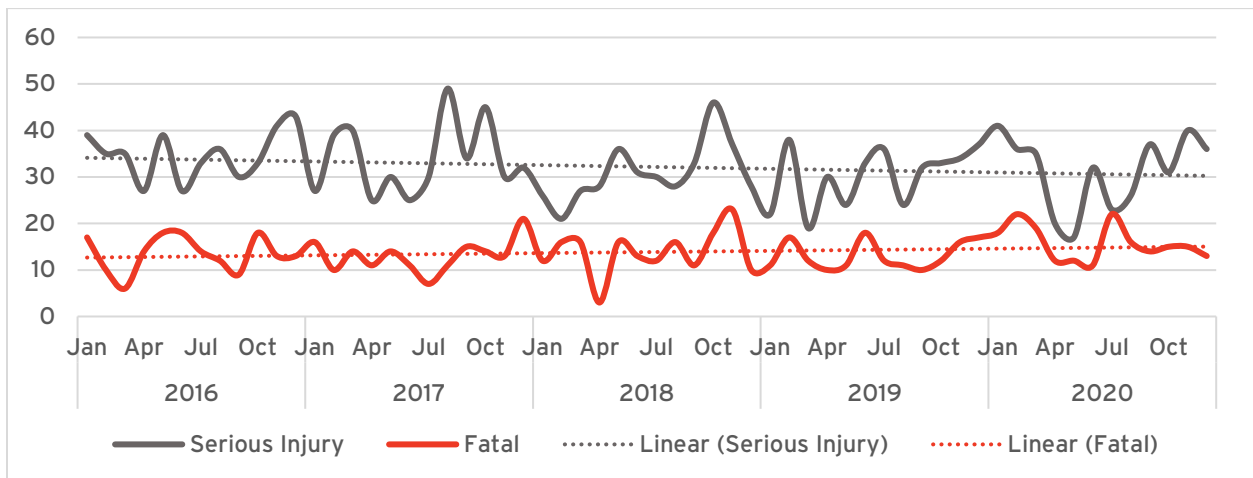
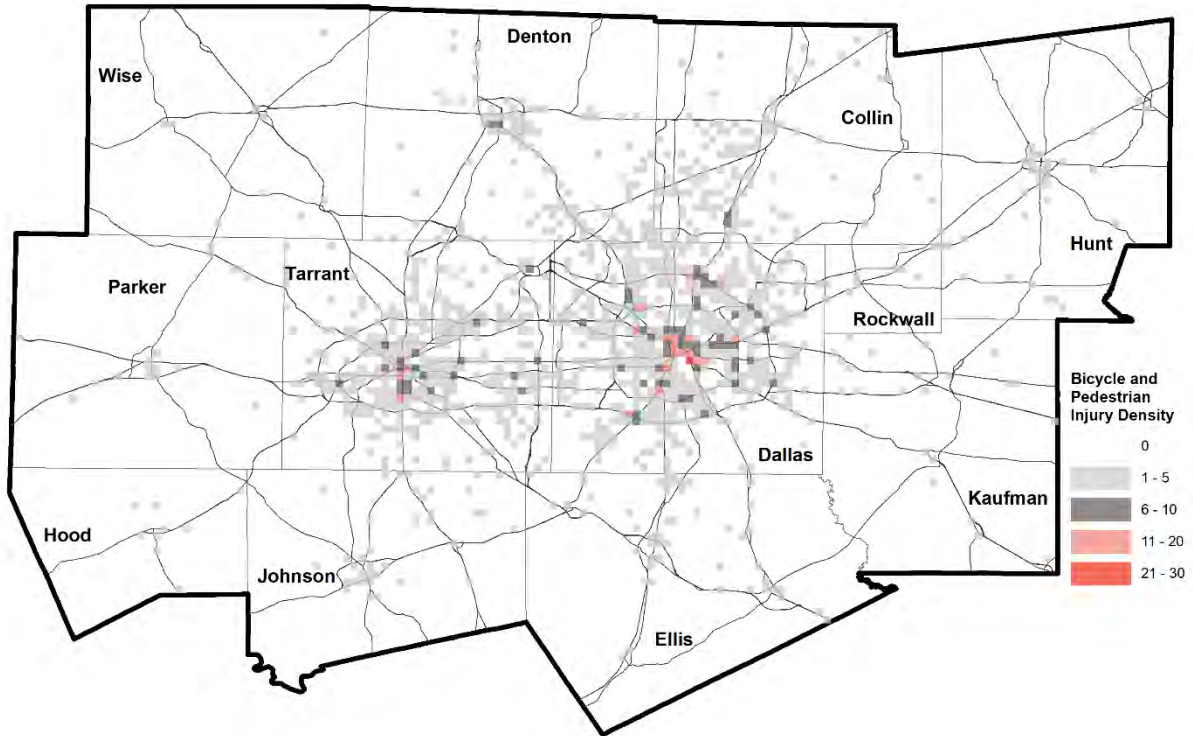


Figure A39 Bicyclist and Pedestrian Related Fatal and Serious Injuries



Impaired Driving

Figure A40 Impaired Driving Crash Tree

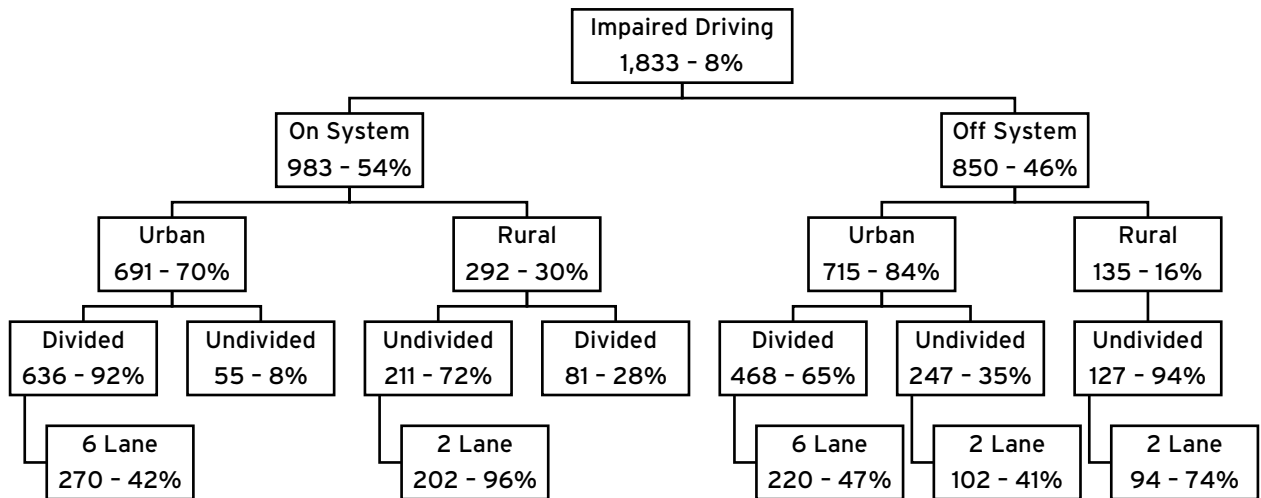


Figure A41 Impaired Driving Fatal and Serious Injuries by Time of Day and Day of Week

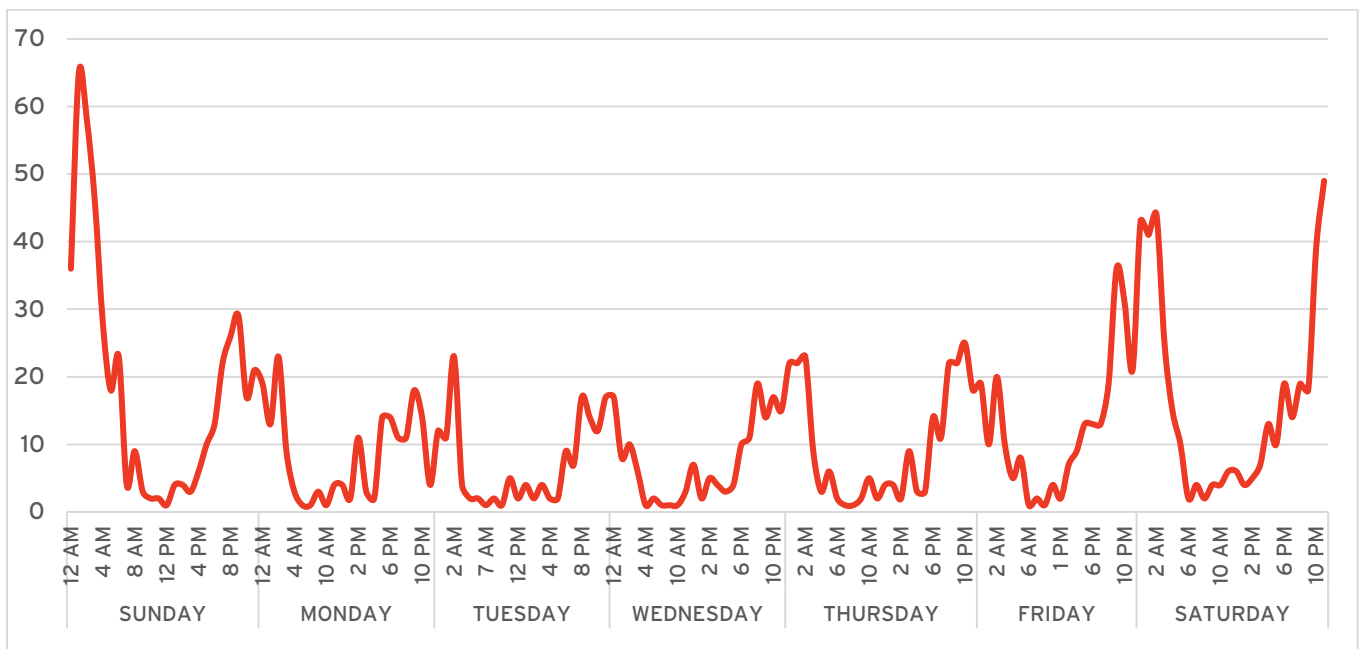


Figure A42 Impaired Drivers Fatal and Serious Injuries by Age and Gender

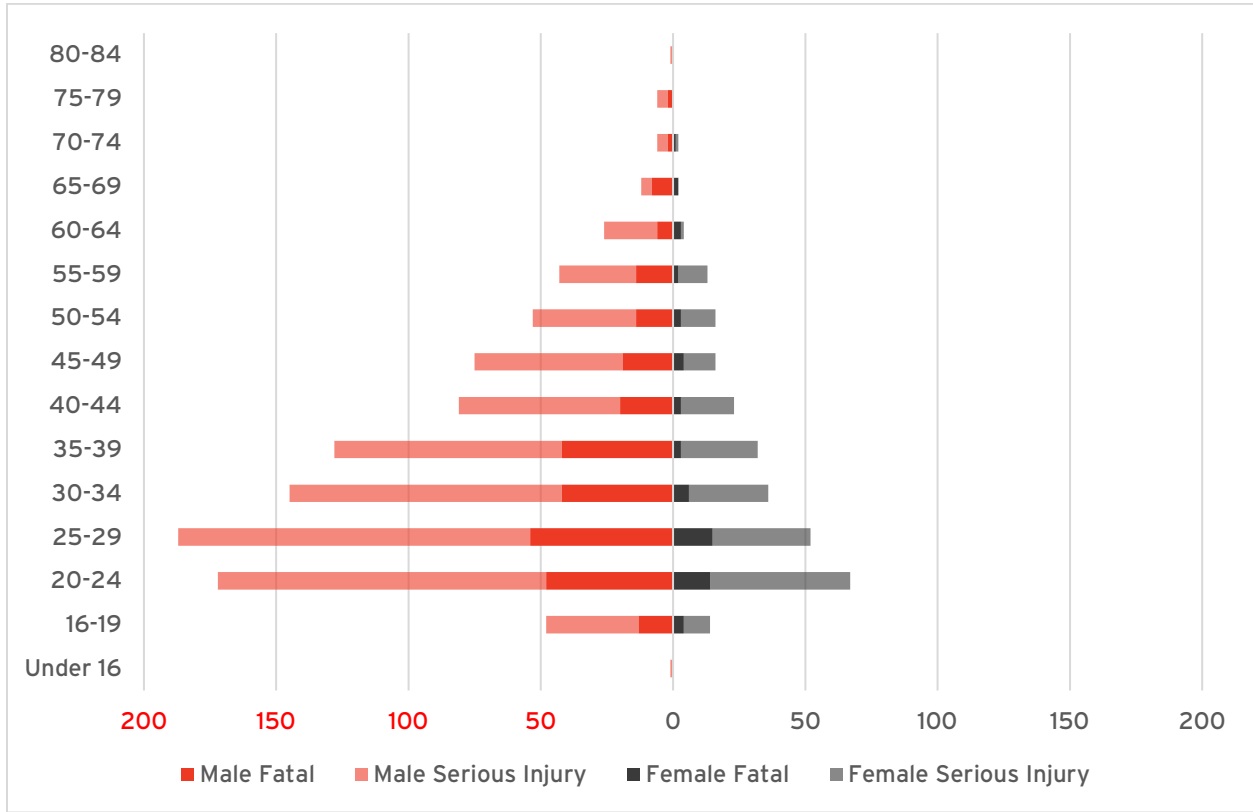


Figure A43 Impaired Driving Related Fatal and Serious Injuries by Ethnicity

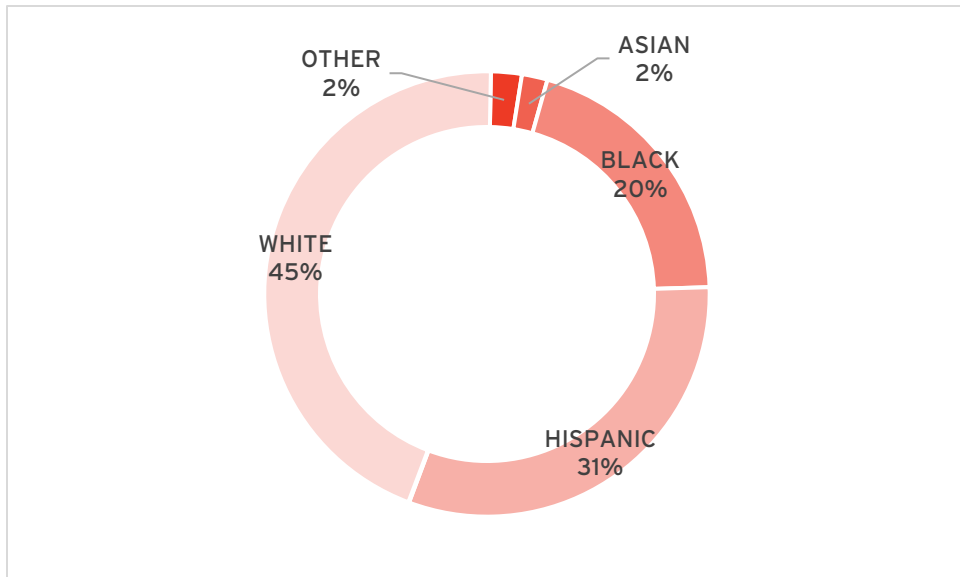


Figure A44 Impaired Driving Fatal and Serious Injuries by Lighting Conditions

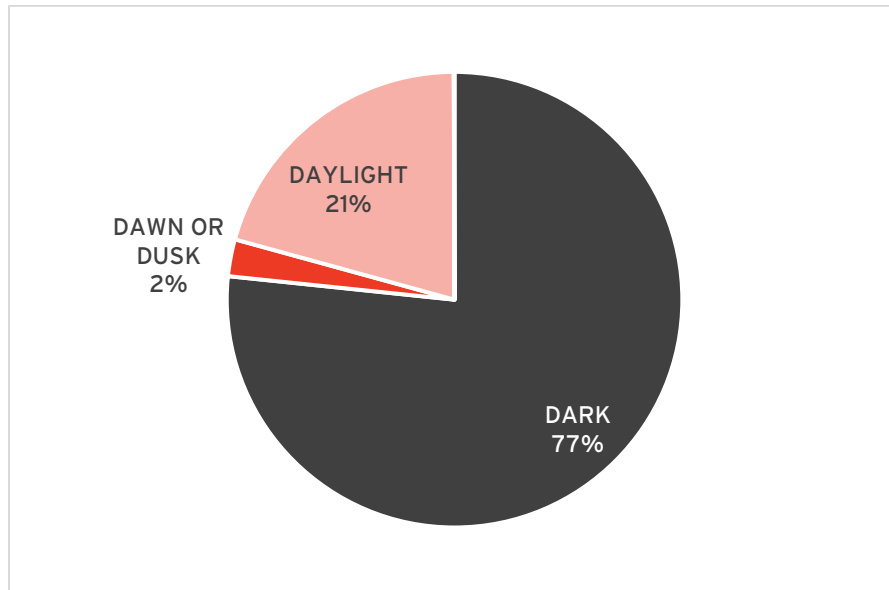


Figure A45 Impaired Driving Related Fatal and Serious Injuries by Month and Year

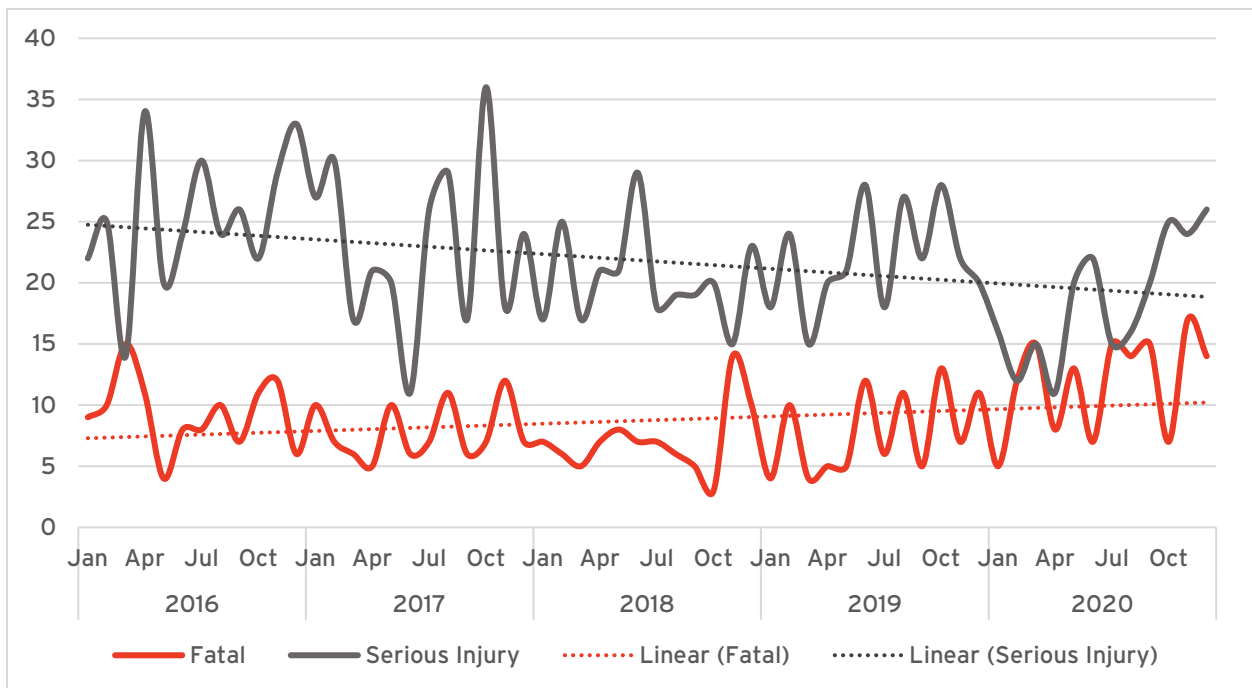
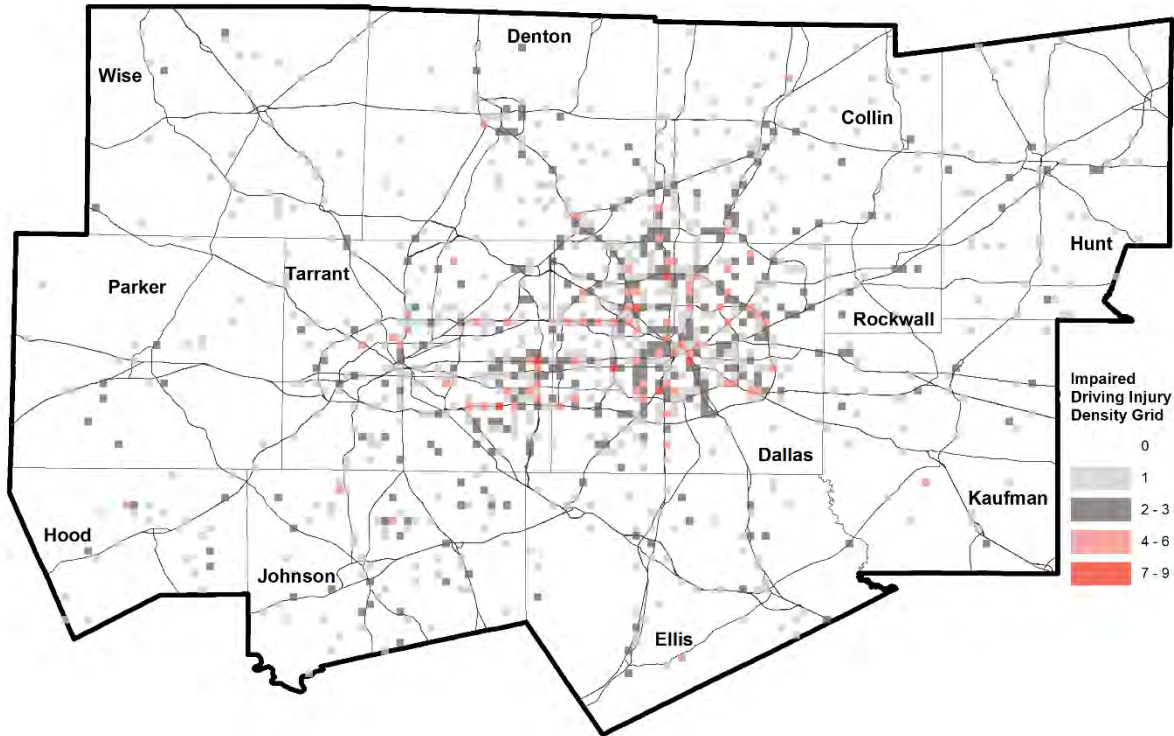


Figure A46 Impaired Driving Related Fatal and Serious Injuries



Distracted Driving

Figure A47 Distracted Driving Crash Tree

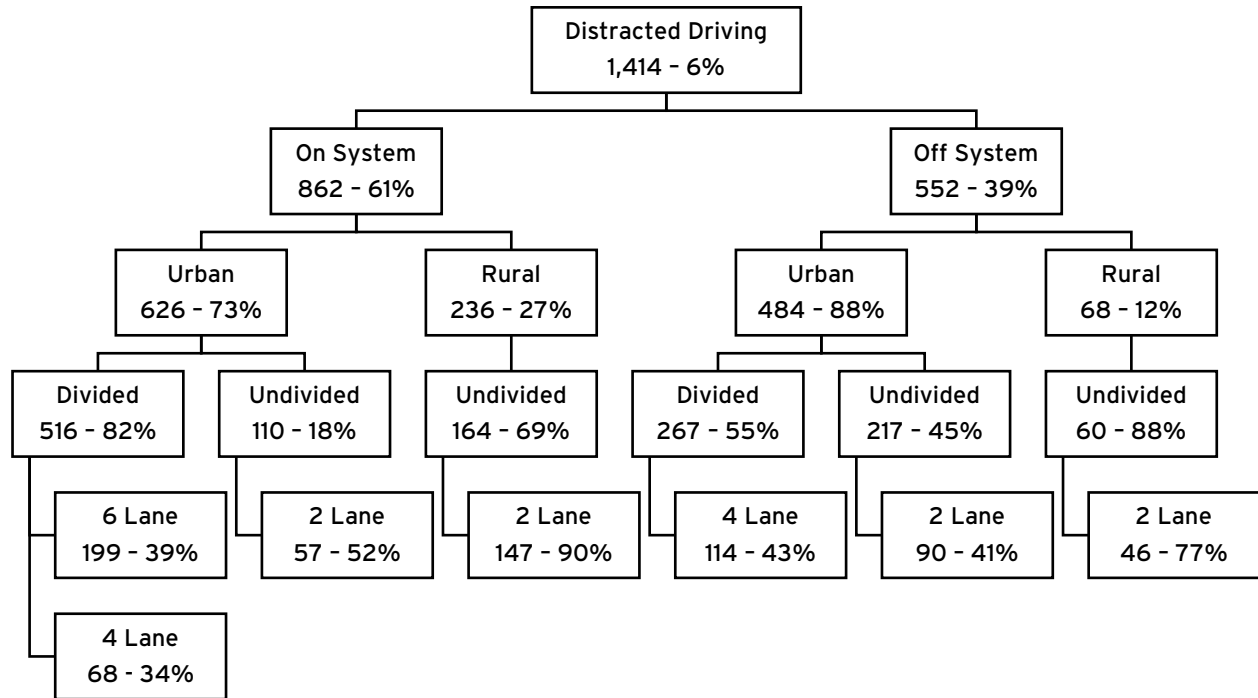


Figure A48 Distracted Driving Fatal and Serious Injuries by Time of Day and Day of Week

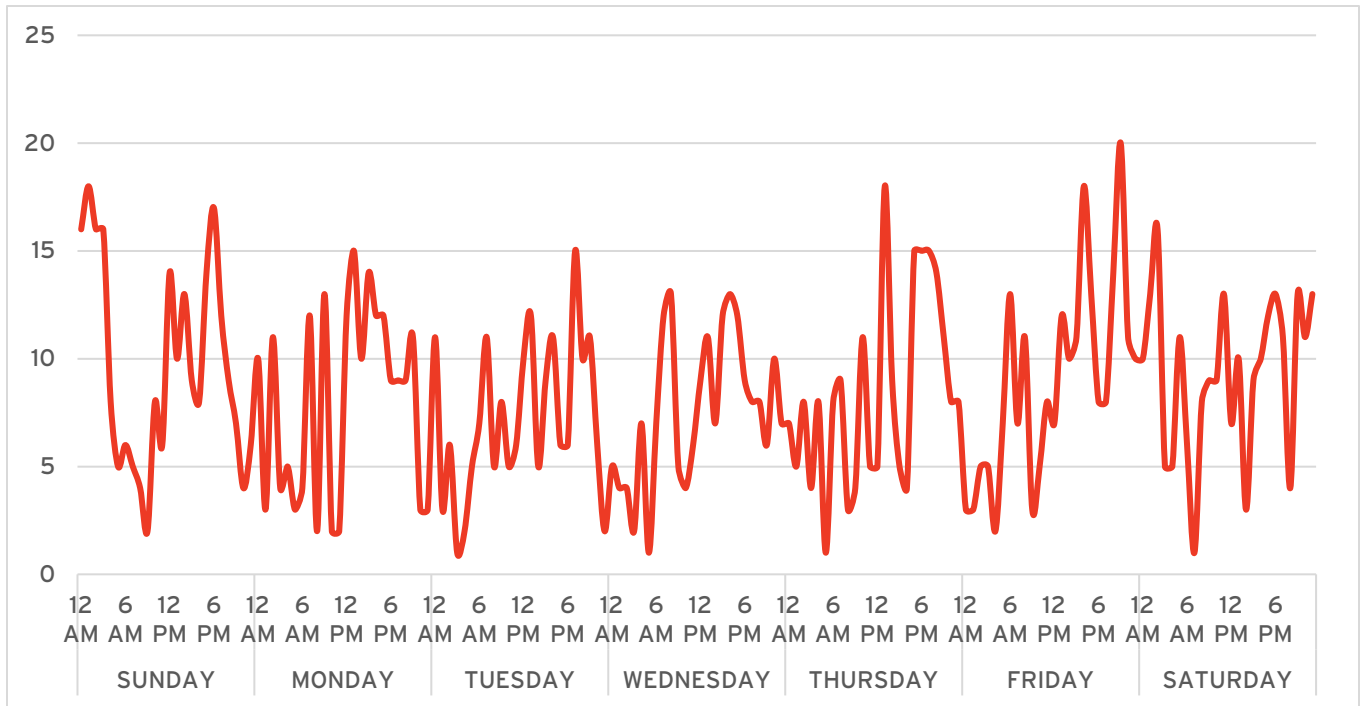


Figure A49 Distracted Driving Fatal and Serious Injuries by Age and Gender

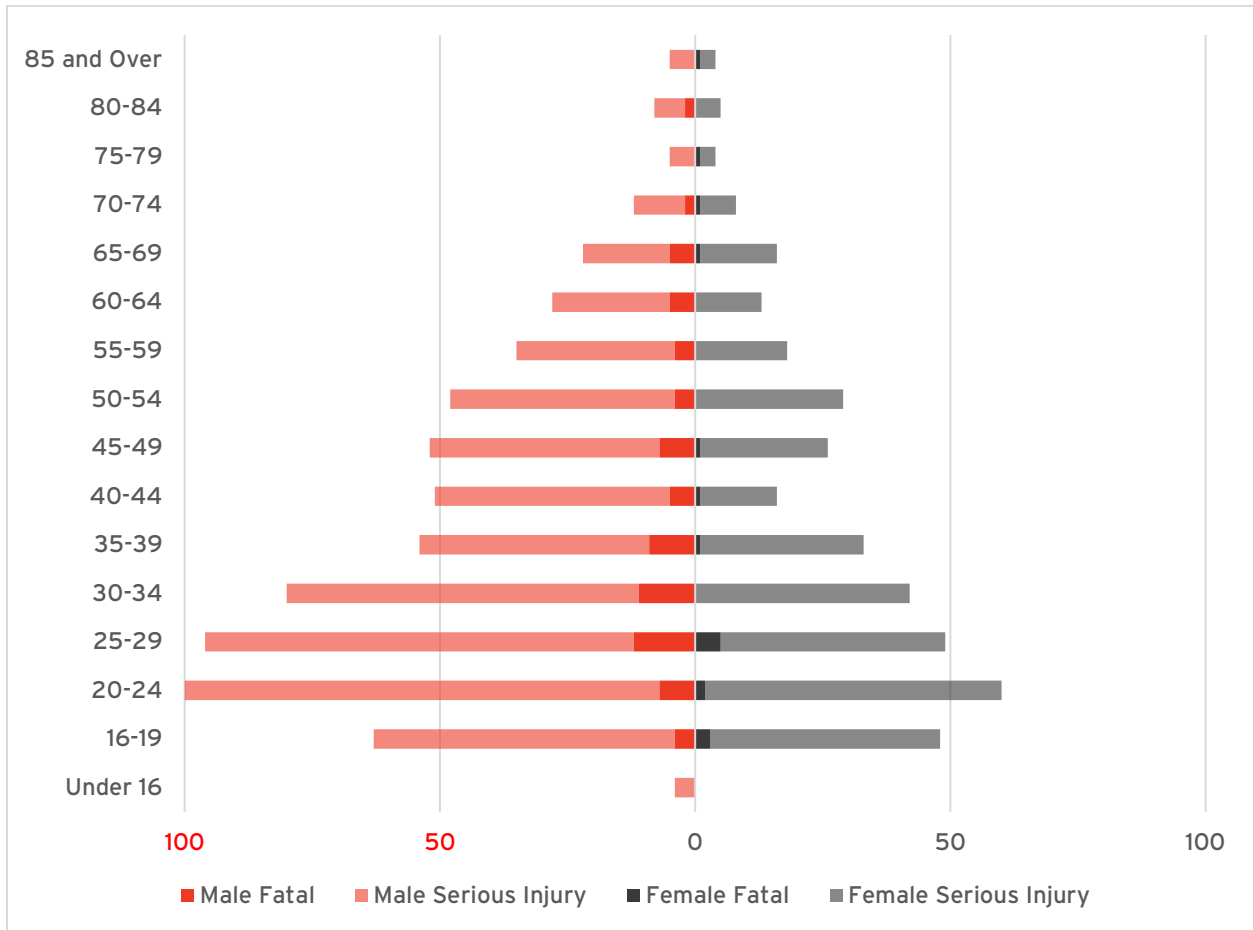


Figure A50 Distracted Driving Fatal and Serious Injuries by Ethnicity

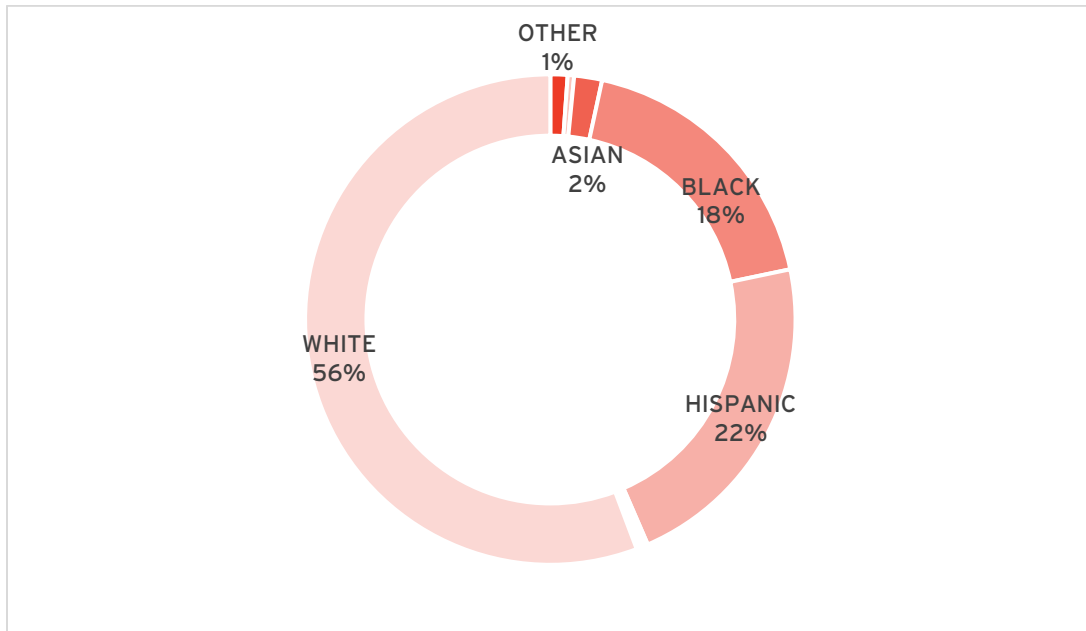


Figure A51 Distracted Driving Fatal and Serious Injuries by Month and Year

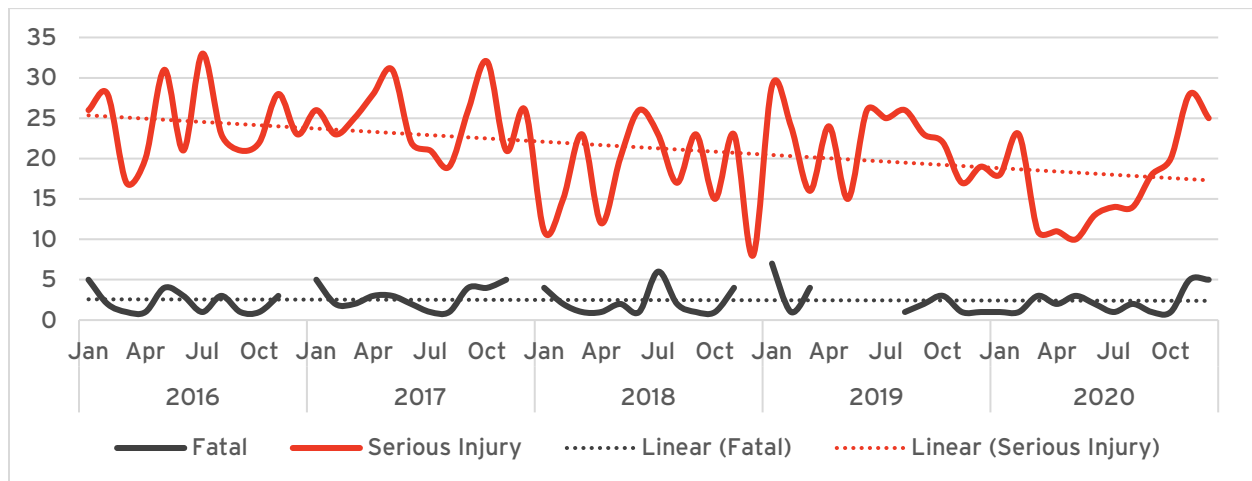


Figure A52: Distracted Driving Fatal and Serious Injuries

