Missouri Safety Center

Final Report

June 2026
Missouri Statewide Seat Belt Usage Survey

Submitted To:

Missouri Department of Transportation

Highway Safety and Traffic Division

MoDOT

Submitted by: LaGena Spence, Missouri Safety Center
University of Central Missouri

Submitted: September 2026

EXECUTIVE SUMMARY

The underlying rationale of this survey is based upon the *Uniform Criteria for State Observational Surveys of Seat Belt Use* published in the **Federal Register** (vol. 76, no. 63, Friday, April 1, 2011, pp 18056-18059) by the National Highway Traffic Safety Administration (NHTSA) of the U. S. Department of Transportation and is in compliance with the subsequent *Final Rule* (effective May 2, 2011). The Uniform Criteria were revised in an effort to standardize the requirements for statewide observation and reporting of seat belt use for drivers and right front-seat passengers. These new requirements contain numerous changes to include county selection based upon fatality-based criterion, the use of a weighted calculation, a change in the standard error from 5.0 percent to 2.5 percent, the involvement of a qualified statistician, and every five years, a reselection of observation sites using the most recent traffic fatality counts.

The following report documents the 2026 results of Missouri's annual statewide seat belt use survey. The principal objective is to establish a seat belt usage rate of drivers and right front-seat passengers from which strategies targeting educational and enforcement occupant protection programs can be developed. Missouri's sampling plan also addresses the need for a statewide seat belt usage rate required by NHTSA.

Missouri's observational survey of seat belt usage took place June 1st through June 14th, 2026. The Highway Safety and Traffic Division of Missouri Department of Transportation (MoDOT) contracted with the Missouri Safety Center located at the University of Central Missouri to help develop, implement, and analyze the 2026 observational survey with the statistical expertise being provided by Judi D. Reine, MA, Director Emerita of Institutional Research at State Fair Community College.

Based upon a total of 106,812 vehicle occupants observed, the 2026 seat belt use rate on Missouri roadways was found to be 88%, with a standard error of 0.2364. Of these 106,812 occupants, seat belt use could not be determined for 110 drivers and 76 right front-seat passengers, therefore, the non-response or unknown use rate for the total 186 occupants was 0.2% and does not exceed the 10.0% requirement established by NHTSA.

Results from Missouri's initial statewide seat belt use survey remain included within this report to display the belt use since 1998. However, comparisons between the years of 1998-2012, 2013-2017, 2018-2022, and 2023-2026 should be made with caution, as these four groups of years represent four distinct survey methodologies and site samples. Table 1 indicates the weighted results of observations from 1998 through 2026.

Table 1: Observations and Usage Rate by Year, 1998-2026*

Year	Usage Rate	Vehicles Observed	Total Observation (Driver & Passenger)
2026	88.0%	87,104	106,812
2025	88.5%	90,760	111,490
2024	88.3%	86,828	108,627
2023	87.0%	88,924	111,101
2022	88.9%	96,342	122,607
2021	88.0%	101,464	129,114
2020	86.1%	92,800	116,224
2019	87.7%	93,100	119,413
2018	87.1%	104,510	135,646
2017	84.0%	91,850	115,902
2016	81.4%	96,705	123,678
2015	79.9%	91,463	118,081
2014	78.82%	90,015	117,297
2013	80.07%	82,128	108,096
2012	79.39%	92,860	119,474
2011	78.95%	97,646	127,720
2010	76.03%	96,160	126,419
2009	77.18%	94,799	122,962
2008	75.78%	88,980	116,274
2007	77.16%	87,543	114,432
2006	75.18%	90,345	117,901
2005	77.41%	82,051	105,233
2004	75.88%	85,066	111,966
2003	72.93%	83,781	109,619
2002	69.37%	75,412	99,099
2001	67.91%	73,603	97,544
2000	67.72%	70,230	92,000
1999	60.8%	74,058	95,538
1998	60.4%	74,930	97,233

*Weighted Data

TABLE OF CONTENTS

PAGE

EXECUTIVE SUMMARY i

METHODOLOGY 1

Rationale for Changing the Sampling Design

County Selection

Roadway Classification and Segment Selection

DATA COLLECTION 3

Observers and Quality Control Monitors

Observation and Survey Protocols

Alternate Site Selection

RESULTS 4

Weighted vs Un-weighted Estimations

STATE-WIDE RESULTS 5

Weighted Data

Un-weighted Data

Driver Distraction

TABLES

PAGE

1 Observations and Usage Rate by Year, 1998-2024 ii
2 Seat Belt Use in Missouri 5
3 Belt Use by Roadway Type 7
4 Belt Use by Vehicle Occupant 8
5 Driver & Passenger Belt Use by Roadway Classification 10
6 Driver Belt Use by Vehicle Type 10
7 Driver Belt Use by Gender 11
8 Driver & Passenger Belt Use by Day of the Week 12
9 Frequency, Vehicles Observed by Direction of Traffic Flow 12
10 Frequency, Vehicles Observed by Time of Day 13
11 Frequency, Vehicles Observed by Road Conditions 13
12 Driver Distraction 14
13 Driver Distraction by Seat Belt Use 14
14 Driver Distraction by Roadway Classification 16
15 Driver Distraction by Vehicle Type 16
16 Driver Distraction by Gender 17
17 Frequency, Distraction by Time of Day 17

FIGURES

PAGE

1 Belt Use by County, weighted 6
2 Belt Use by County, unweighted 9
3 Driver Belt Use by Gender by Vehicle 11
4 Driver Distraction by County 15

APPENDICES

PAGE

A Vehicle Occupant Fatalities by County, 2016-2020 18

B Top Counties with 85% of Vehicle Occupant Fatalities, 2016-2020 (Map) 21

C Random Selection of Counties for Sampling, 2016-2020 (Map) 22

D County VMT by Functional Road Type, (State System Only) - 2019 Data 23

E Site Summary Form 26

F Observation Form 27

G Alternate Site Selection - 2026 28

METHODOLOGY

According to NHTSA's Uniform Criteria, at least once every five years, all States are required to reselect their observation sites using the most recent traffic fatality counts. Missouri was required to reselect observation sites for the 2023-2027 survey years. The fatality data from the five-year period 2016-2020 were used for this purpose and were obtained from MoDOT. This reselection process resulted in changes to the survey design and observation sites.

Rationale for Changing the Sampling Design

- The 1998 seat belt use survey was done as the base line; then each survey after and up through the 2012 seat belt use survey was conducted as a replication of the former. All were probability-based surveys with the data collection locations representative of 85 percent of the State's population and were, at that time, in compliance with the guidelines recommended by NHTSA.

- In compliance with the Uniform Criteria, a new survey design was implemented in Missouri beginning with the 2013 statewide survey. In addition to the new design, Missouri elected to depict the usage rate for each of Missouri's seven transportation districts, requiring at least 4 counties be included from each district. This approach was used through 2017.

- Per the Uniform Criteria, Missouri reselected road segments and observation sites for the next five-year period starting with the 2018 survey. In addition to the new road segment and site selection, Missouri removed the requirement that each district be represented by at least 4 counties. This approach was used through 2022.

- For the 2023-2027 survey, and complying with the Uniform Criteria, the Missouri survey was evaluated, and new road segments and observation sites were selected. In previous surveys, roadways were identified in four different functional classifications; Interstate, Freeway/Expressway, Arterial, and Collector. For the 2023 survey Missouri added the Local functional roadway classification. The 2023-2027 survey design was approved by NHTSA on May 1, 2023.

County Selection

The State of Missouri is comprised of 114 counties and the City of St. Louis. For the purpose of this study the City of St. Louis and the County of St. Louis have been combined and have been counted as a single county. A total of 62 counties accounts for 85 percent of the total fatalities from 2016-2020 and these represent the primary sampling unit (PSU). The fatality data are reported by county, in descending order of magnitude, in *Appendix A, Vehicle Occupant Fatalities by County, 2016-2020.* They are also highlighted on the Missouri map, *Appendix B, Top Counties with 85% of Vehicle Occupant Fatalities, 2016-2020.*

The Vehicle Miles Traveled (VMT) – both Daily (DVMT) and Annual – were obtained from MoDOT for each of the 62 counties comprising the top 85% of the vehicle occupant fatalities for 2016-2020. In addition, the percent of the Total Yearly VMT was computed for each of the 62 counties based upon the Annual VMT for each county as compared with the grand total VMT (189,680,465 miles) for the group of 62 counties.

The final selection of 28 counties was made utilizing Microsoft Excel and Visual Basic for Applications to create a macro that would perform the random selection. This weighted the counties such that a county with high annual VMT would have more opportunities for selection than a county with low annual VMT. The resultant 28 counties may be found on the Missouri map, *Appendix C, Random Selection of Counties for Sampling, 2016-2020*.

Roadway Classification and Segment Selection

Roadway Segment Pool: The individual roadway segments to be used as observation sites were selected from MODOT's Transportation Management System (TMS). The TMS is updated annually and includes all federal, state, and local roads throughout the state. Pursuant to the guidelines in NHTSA's *Final Rule* (effective May 2, 2011), the following road types were excluded from this study: non-public roads, unnamed roads, unpaved roads, vehicular trails, access ramps, cul-d-sacs, traffic circles, and service drives. Four roadway types (Interstate, Freeway/Expressway, Arterial, and Collector) within each of the 28 survey counties were divided into roadway segments, each of which begins and ends at an "at grade" intersection where traffic could potentially change. There are eight Metropolitan Statistical Areas (MSA) in Missouri. These include St. Louis, Kansas City, Springfield, Columbia, Joplin, Jefferson City, St. Joseph, and Cape Girardeau. Each MSA could cover multiple counties. For counties with an MSA, local roads are included in the study. Local roads in counties with no MSAs are excluded as allowed in 23 CFR Part 1340.5(a)(2)(iii).

Selection of Observation Sites: A total of 20 observation sites (roadway segments) per county were selected. Each functional road classification was sampled in proportion to the percentage of road classification VMT within each county. For example, if 40 percent of the VMT in the county were Interstates, then 40 percent of the sampled sites were randomly selected from the Interstate pool.

Each road segment had an opportunity to be selected based on its corresponding Functional Class and VMT – if the VMT was very small, the opportunity for selection was minimal. *Appendix D, County VMT by Functional Road Type (State System Only),* reports the Annual VMT, Percent of Annual VMT, Number of Road Segments to be Sampled, Available Segments, The Probability of Selection by Segment, and the Number of Alternate Segments Selected.

DATA COLLECTION

Observers and Quality Control Monitors

Forty observers were hired and trained by the Missouri Safety Center. All but five of the observers were experienced data collectors who had conducted seat belt observations in past surveys. The five newly hired observers received additional and individual training from the Missouri Safety Center.

All observers and quality control monitors were trained in the appropriate procedures of Missouri's survey. Data collection protocols, scheduling, site locations, field protocols and reporting requirements were all topics covered during the training. Additionally, observers were instructed on how to proceed in conditions of bad weather or temporary traffic impediments, as well as, if an observation site needed to be abandoned due to construction activities, safety concerns, or some other legitimate reason.

The Quality Control Monitors were given additional training that focused on their specific duties. These duties included verifying that the observers were at the appropriate observation site during the assigned time and ensuring that the observers were following field protocol and helping if needed. Nine Quality Control monitors were utilized to conduct random unannounced visits to 82 of the total 560 observation sites. This represents a 14.6 percent monitoring rate which is well above the 5.0 percent rate required by NHTSA.

Observation and Survey Protocols

Observation sites were geographically organized into clusters of 3, 4, or 5 sites to facilitate a reasonable driving time between locations. Each cluster was randomly assigned a single day of the week for the observation to take place. The sites within the cluster were then randomly assigned an observation period-of-time.

Two observers were required to work together at each observational road segment; one to articulate the observations for each vehicle while the other would record the observations. Each observer was given a survey schedule, a detailed county map of segment locations, and a segment map for each segment in their respective observational counties. The survey schedule specified the segment number (both primary and alternate), weekday, start time, survey route, start crossroad, end crossroad, and functional class-road type. Using the identified, start crossroad and end crossroad listed on the survey schedule, the observer was to use their best judgment to select the safest location to conduct the survey within the specified road segment. Observers recorded data from one lane (outermost or far-right lane) and one direction of travel per survey location. The observations were conducted on all days of the week during daylight hours between 7:00 a.m. and 6:00 p.m. Observations started at the predetermined assigned time and continued for exactly 45 minutes.

Observations for use, non-use or unknown use of seat belts were recorded for all drivers and front-seat outboard passengers including children riding in booster seats (excluding children in child safety seats). If there was no passenger in the right front-seat of an observed vehicle then the passenger field was left blank on the data collection form. Passenger cars, van/minivans, sport utility/crossover vehicles, pickup trucks and commercial vehicles weighing less than 10,000 pounds were all qualifying vehicles for the survey and were eligible for observation, regardless of the license state. In all prior observational surveys only one additional data element, that of driver gender, was collected and recorded. However, as part of the 2026 observational survey, drivers exhibiting any visible distraction were also collected and recorded. All these data were recorded on the *Site Summary Form (Appendix E) and Observation Form (Appendix F).*

Alternate Site Selection

Observers were instructed on how to proceed in conditions of bad weather or temporary traffic impediments, as well as if an observation site needed to be abandoned due to construction activities, safety concerns, or some other legitimate reason.

Alternate sites were selected in the counties of Boone, Buchanan, Butler, Franklin, Greene, Jackson, Jasper, Jefferson, Lafayette, Platte, St. Charles, St. Louis, Taney and Texas. Alternate site selections are noted in *Appendix G* included with this report.

RESULTS

Weighted vs. Un-weighted Estimations

Information recorded using the *Site Summary* and *Observation Forms* represent each vehicle observed. This information is considered to be raw or ***unweighted*** data. While it might appear that using such information is the most direct and easiest to understand, it is often misleading when one considers that the observations on some road segments included every vehicle during the specified time period while significantly fewer vehicles were counted on other road segments. That is, all vehicles were counted on most two-lane roads, but it will not be true of multi-lane roadways where the observers included only those vehicles in the outer most right-hand lane and/or, if the traffic was heavy, recorded perhaps every third vehicle. NHTSA requires the estimations of seat belt use to be calculated using weighted data; this was done in Missouri using the specifications described in the approved observational plan. Each of the following sections will be identified as containing either weighted or un-weighted data.

STATEWIDE RESULTS

Observers recorded data from 560 sites within the 28 Missouri counties on 106,812 vehicle occupants of whom 87,104 were drivers and 19,708 were outboard front-seat passengers; of these, belt use was unknown for 186 vehicle occupants.

Weighted Data

Tables 2-3 and Figure 1 show only weighted data and include the relative weights of the DVMT; however, they do exclude the unknowns (186 vehicle occupants).

The overall belt use rate for drivers and passengers combined is 88 percent (95 Percent Confidence Interval 87.8% - 88.2%). Table 2 shows the 2026 Seat Belt Use in Missouri.

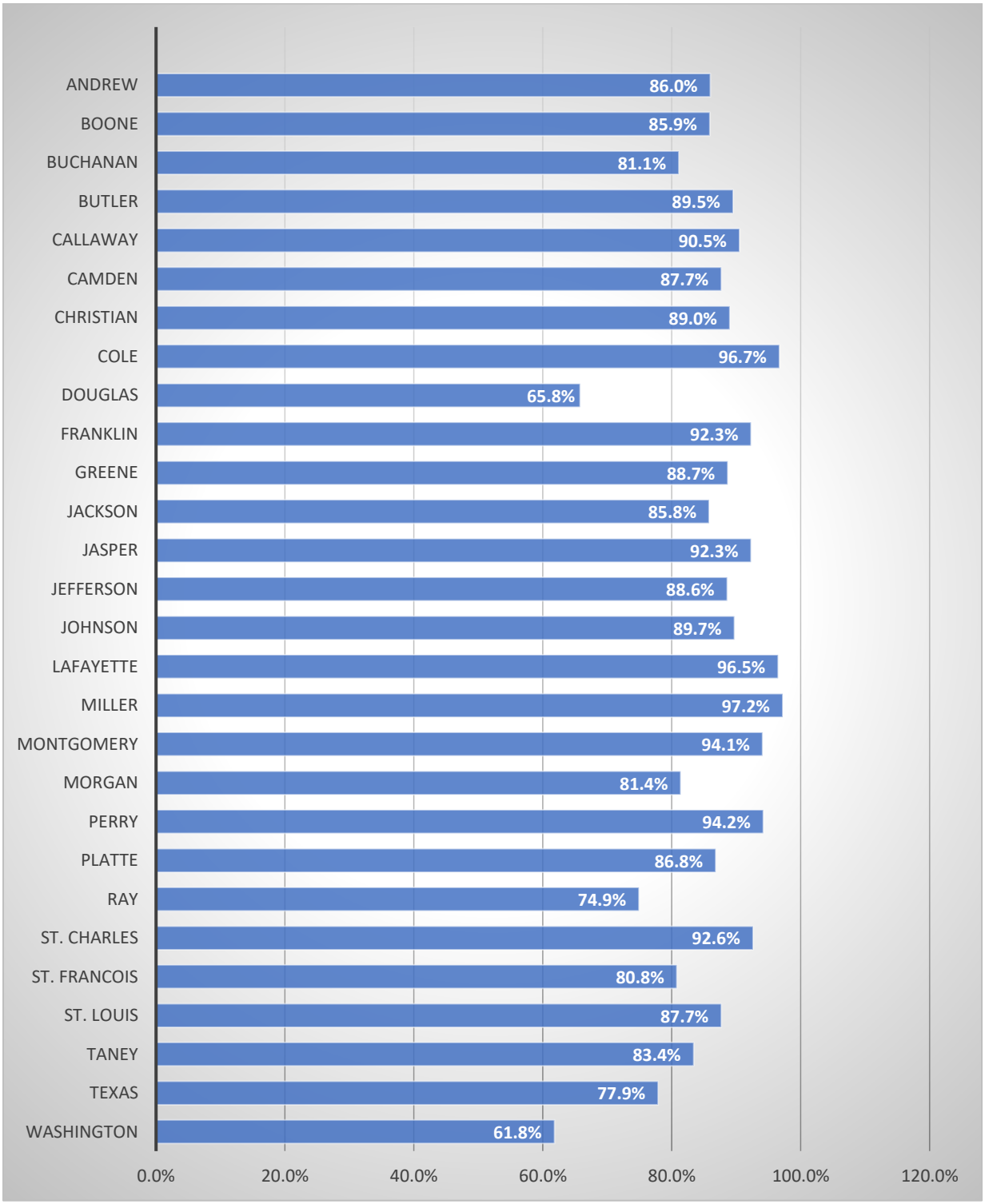
Table 2: Seat Belt Use in Missouri*

Belt Use	Frequency	Percent	Standard Error of Percent
Belted	92,324	88.0	0.2364
Non-Belted	14,302	12.0	0.2364
Total	106,626	100.0	

* Weighted Data

Figure 1 shows the weighted seat belt use rates by county. The range of percent is from a low of 61.8 percent in Washington County to a high of 97.2 percent in Miller County.

Figure 1: Belt Use by County*



* Weighted Data

Table 3 shows the overall vehicle occupant seat belt use by roadway type. Roadways are stratified using the five functional roadway classifications of MoDOT. The roadway type Freeway/Expressway had the highest seat belt use whereas the roadway type Collector had the lowest, at 90.5 and 74.2 percent respectively.

Table 3: Belt Use by Roadway Type*

Roadway Type	Percent Belted
Arterial	74.9
Collector	74.2
Freeway/Expressway	90.5
Interstate	89.9
Local	78.3

* Weighted Data

The five functional roadway classifications identified by the Missouri Department of Transportation:

Arterial – Arterials provide high level mobility while at the same time allowing many at-grade intersections. Entrances to local land are typically permitted wherever safe to do so. Arterials provide connections between other classifications and are typically spaced at intervals consistent with population density, to be within reasonable distances of all developed areas.

Collector – Collector routes gather traffic from local roads and trip generating locations, in order to funnel them to arterial routes. Collectors generally connect neighborhoods, or other regions of local roads, to arterial networks. As such, they do not normally serve through traffic.

Freeway/Expressway – Freeways and expressways are physically similar to interstates but are not in the official interstate system. Opposing traffic flows are physically separated by medians or barriers. Access to freeways is generally the same as interstates, fully controlled to allow access only via interchanges, while expressways allow limited, at-grade intersections. The emphasis is to provide high levels of mobility with limited access to local lands.

Interstate – The interstate system is a network of highways limited to those officially designated by the Secretary of Transportation. Interstates have full control of access, allowing access only via interchanges and prohibiting at-grade intersections. Their opposing traffic flows are physically separated by medians or barriers. Interstates offer high levels of mobility while linking major urban areas.

Local – Are any road not classified as an arterial or collector. Local roads accept traffic from collector streets and distribute the traffic through subdivisions, neighborhoods and business areas to individual homes, apartments, business sites, and industrial sites. They are not intended for use in long-distance travel, except at the origination or termination of a trip.

Unweighted Data

Tables 4-11 and Figures 2-3 show only raw or unweighted data and do not include the relative weights of the DVMT; they do include the unknown, 186 vehicle occupants. These numbers are not directly comparable to the weighted estimates.

Table 4 exhibits the unweighted estimates of seat belt use by drivers (85.8%), passengers (89.4%), and overall (86.4%).

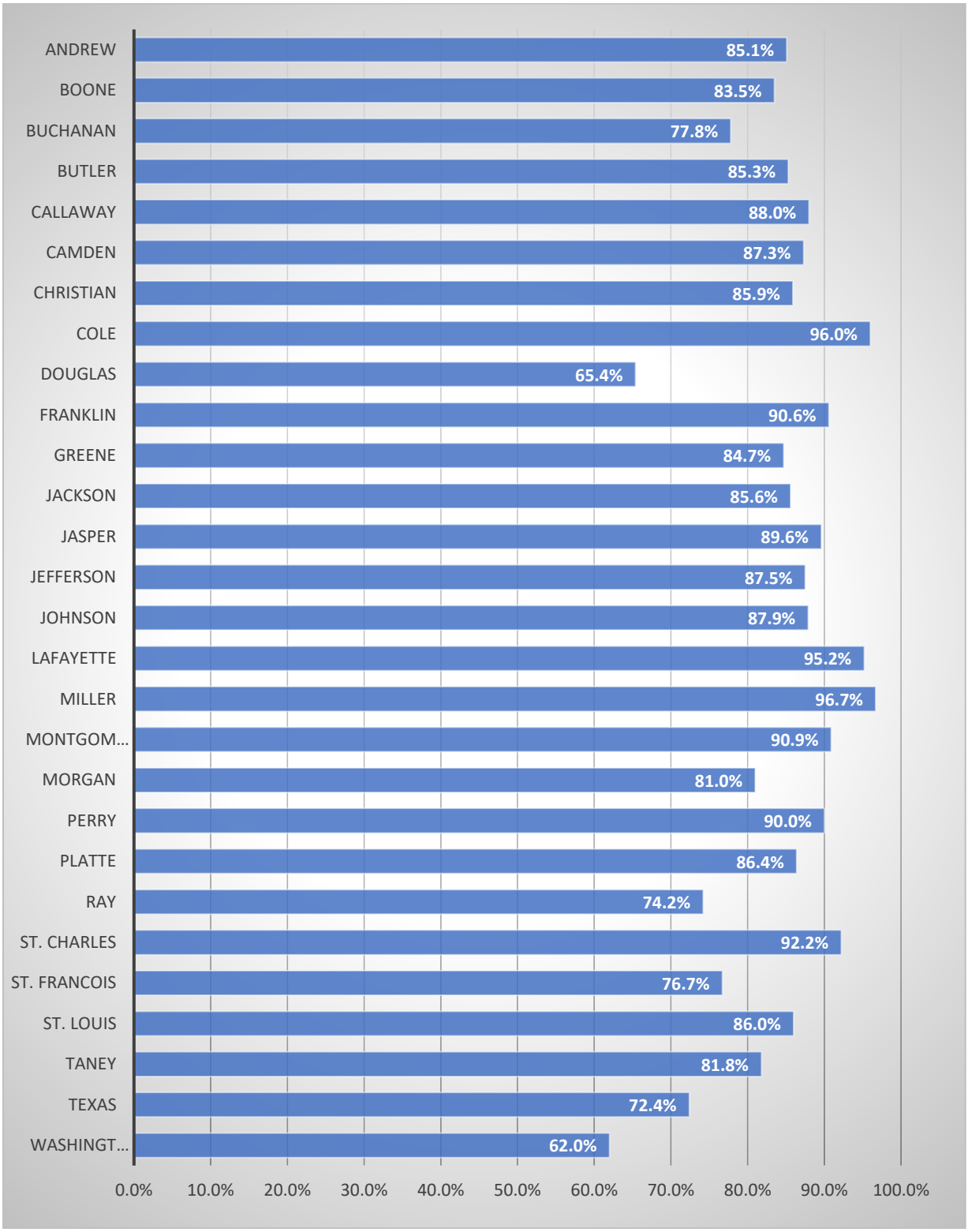
Table 4: Belt Use by Vehicle Occupant**

Vehicle Occupant	Belted Freq.	Belted Percent	Non-Belted Freq.	Non-Belted Percent	Unknown Freq.	Unknown Percent
Drivers	74,709	85.8	12,285	14.1	110	0.1
Passengers	17,615	89.4	2,017	10.2	76	0.4
Overall	92,324	86.4	14,302	13.4	186	0.2

** Unweighted Data

Figure 2 distributes the unweighted seat belt usage rates by county. Usage varied from a low of 62.0 percent in Washington County to a high of 96.7 percent in Miller County.

Figure 2: Belt Use by County**



** Unweighted data

Driver and Passenger seat belt use by roadway classification is displayed in Table 5 and shows that belt use was highest on Interstate (90.7%). The lowest usage was recorded for the Collector (75.7%) classification.

Table 5: Driver & Passenger Belt Use by Roadway Classification**

Roadway Type	Belted Freq.	Belted Percent	Non-Belted Freq.	Non-Belted Percent	Unknown Freq.	Unknown Percent	Overall Freq.	Overall Percent Total of 106,812 observed
Arterial	20,458	79.4	5,264	20.4	51	0.2	25,773	24.1
Collector	2,457	75.7	781	24.0	9	0.3	3,247	30.1
Freeway/ Expressway	30,535	88.5	3,918	11.3	69	0.2	34,522	32.3
Interstate	37,065	90.7	3,779	9.2	50	0.1	40,894	38.3
Local	1,809	76.1	560	23.6	7	0.3	2,376	2.2

** Unweighted data

Drivers of Sport Utility/Crossover vehicles exhibited the highest seat belt use rate among vehicle types at 91.1 percent, while drivers of pickup trucks exhibited the lowest use rate at 76.6 percent. Table 6 shows seat belt use by drivers by vehicle type.

Table 6: Driver Belt Use by Vehicle Type**

Vehicle Type	Belted Freq.	Belted Percent	Non-Belted Freq.	Non-Belted Percent	Unknown Freq.	Unknown Percent	Overall Freq.	Overall Percent Total of 87,104 observed
Passenger Cars	18,097	85.3	3,095	14.6	27	0.1	21,219	24.3
Sport Utility/ Crossover	34,169	91.1	3,285	8.8	40	0.1	37,494	43.1
Pickup Trucks	16,604	76.6	5,036	23.3	39	0.2	21,679	24.9
Van/ Minivan	5,839	87.0	869	12.9	4	0.1	6,712	7.7

** Unweighted data

An additional data element collected during the survey was that of Driver Gender. Table 7 provides the seat belt use estimation by driver gender. In 2026, female drivers show a higher seat belt use rate than males, 91.5 and 82.4 percent respectively.

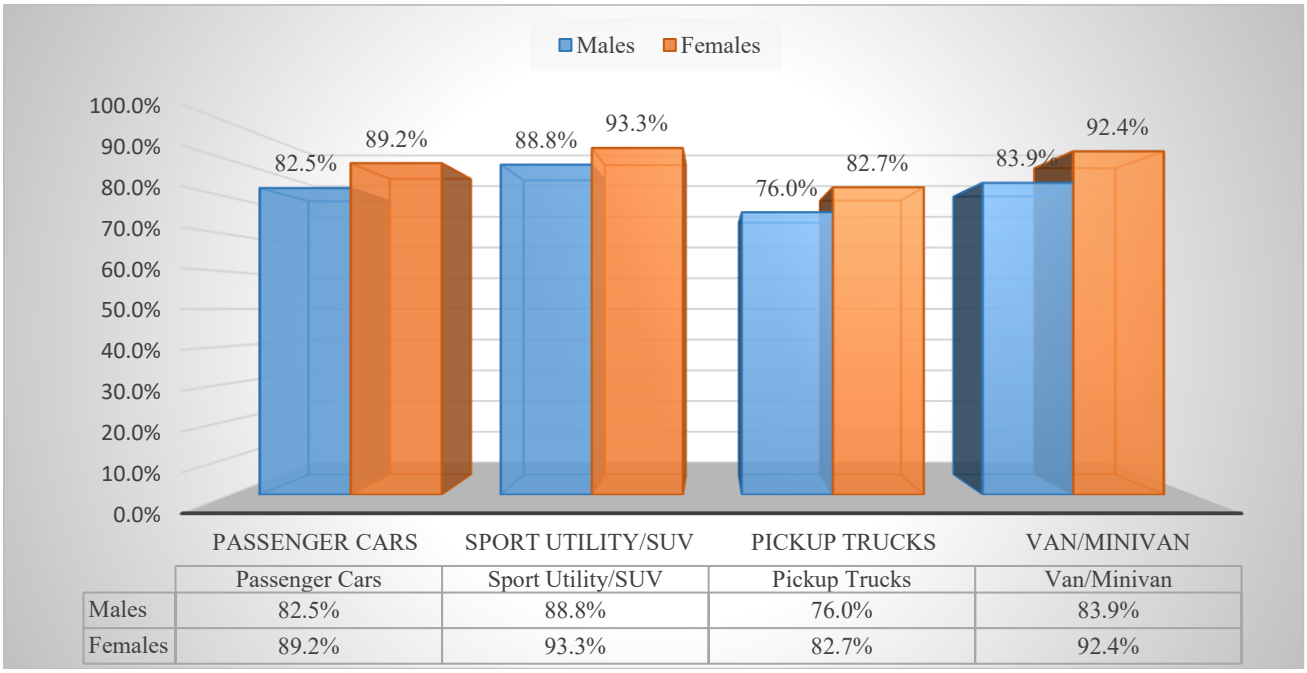
Table 7: Driver Belt Use by Gender**

Gender	Belted Freq.	Belted Percent	Non-Belted Freq.	Non-Belted Percent	Unknown Freq.	Unknown Percent	Overall Freq.	Overall Percent* Total of 87,104 observed
Female	29,707	91.5	2,715	8.4	38	0.1	32,460	37.3
Male	45,002	82.4	9,570	17.5	72	0.1	54,644	62.7

**Unweighted Data

Figure 3 shows the breakdown of male and female driver's seat belt use by vehicle type. Female drivers had higher rates of seat belt use among all vehicle types in 2026, ranging from 82.7 percent in pickup trucks to 93.3 percent in SUVs. Males used seat belts only 76.0 percent in pickup trucks and 88.8 percent in SUVs.

Figure 3: Driver Belt Use by Gender by Vehicle**



	Passenger Cars	Sport Utility/SUV	Pickup Trucks	Van/Minivan
Males	82.5%	88.8%	76.0%	83.9%
Females	89.2%	93.3%	82.7%	92.4%

**Unweighted Data

The 2026 survey was scheduled and conducted over a fourteen-day period (June 1st through 14th), between the hours of 7:00 am and 6:00 pm. Table 8 shows that the 106,812 observations of both drivers and passengers Friday had the highest number of observations at 17,035 but Sunday had the highest belt use at 88.4 percent.

Table 8: Driver & Passenger Belt Use by Day of the Week**

Day of the Week	Belted Freq.	Belted Percent	Non-Belted Freq.	Non-Belted Percent	Unknown Freq.	Unknown Percent	Overall Freq.	Overall Percent* Total of 106,812 observed
Monday	8,347	86.6	1,279	13.3	9	0.1	9,635	9.0
Tuesday	11,606	83.4	2,283	16.4	30	0.2	13,919	13.1
Wednesday	12,310	87.8	1,685	12.0	33	0.2	14,028	13.1
Thursday	14,058	86.1	2,236	13.7	25	0.2	16,319	15.3
Friday	17,035	85.7	2,814	14.2	24	0.1	19,873	18.6
Saturday	15,281	87.1	2,250	12.8	14	0.1	17,545	16.4
Sunday	13,687	88.4	1,755	11.3	51	0.3	15,493	14.5

** Unweighted Data

Tables 9, 10 and 11 display the frequency of vehicles observed by direction of traffic flow, time of day, and conditions of the road.

Table 9: Frequency, Vehicles Observed by Direction of Traffic Flow**

Flow	Frequency	Percent	Cumulative Frequency	Cumulative Percent
East	27,212	31.3	27,212	31.3
North	16,567	19.0	43,779	50.3
South	17,010	19.5	60,789	69.8
West	26,315	30.2	87,104	100.0

**Unweighted Data

Table 10: Frequency, Vehicles Observed by Time of Day**

Time	Frequency	Percent	Cumulative Frequency	Cumulative Percent
7:00 am	6,269	7.2	6,269	7.2
8:00 am	5,123	5.9	11,392	13.1
9:00 am	5,834	6.7	17,226	19.8
10:00 am	8,320	9.6	25,546	29.4
11:00 am	9,118	10.5	34,664	39.9
12:00 pm	7,668	8.8	42,332	48.7
1:00 pm	6,794	7.8	49,126	56.5
2:00 pm	9,876	11.3	59,002	67.8
3:00 pm	9,008	10.3	68,010	78.1
4:00 pm	11,894	13.6	79,904	91.7
5:00 pm	7,200	8.3	87,104	100.0

**Unweighted Data

Table 11: Frequency, Vehicles Observed by Road Conditions**

Condition	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Dry	67,183	94.6	67,183	94.6
Wet	3,840	5.4	71,023	100.0

**Unweighted Data Frequency Missing =16,081

Distracted Driving

Tables 12-16 and Figure 4 show only driver raw or unweighted data and do not include the relative weights of the DVMT; they do include the driver unknowns (186).

Overall, in 2026, 5.6 percent of drivers were observed to be driving with a visible distraction. These visible distractions could include any distraction, such as using a phone, texting/looking down, eating, operating the radio or an audio device, for example. Table 12 exhibits the estimates of drivers observed to be distracted.

Table 12: Driver Distraction**

Vehicle Occupant	No Distraction Freq.	No Distraction Percent	Distraction Freq.	Distraction Percent
Drivers	82,269	94.4	4,835	5.6

** Unweighted Data

Table 13 exhibits the unweighted estimates of driver distraction by seat belt use.

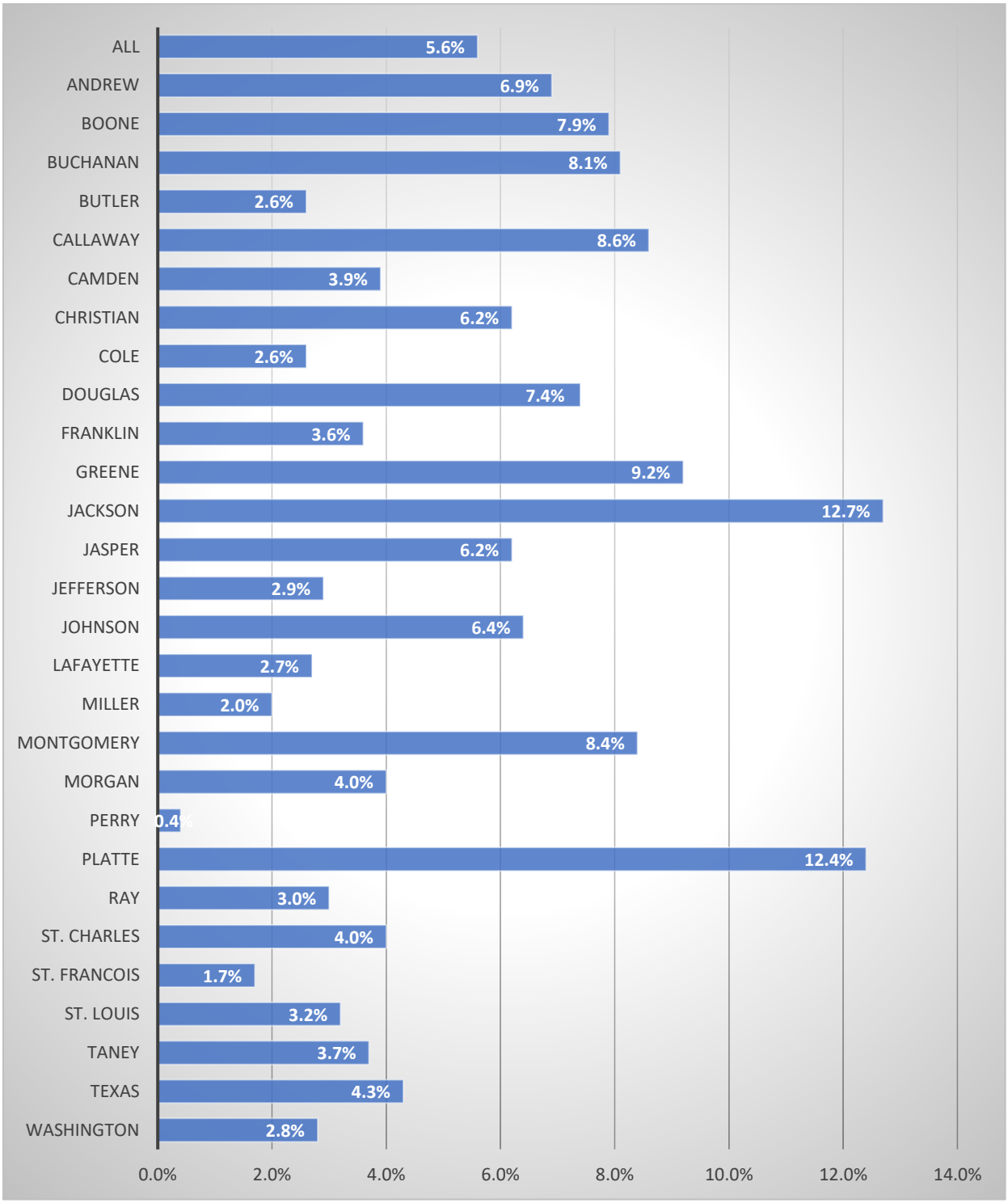
Table 13: Driver Distraction by Seat Belt Use**

Drivers	Belted Freq.	Belted Percent	Non-Belted Freq.	Non-Belted Percent	Unknown Freq.	Unknown Percent
No Distraction	70,727	94.7	11,436	93.1	106	96.4
Distraction	3,982	5.3	849	6.9	4	3.6

** Unweighted Data

Figure 4 distributes the driver unweighted distracted percentage rates by county. Distraction varied from a low of 0.4 percent in Perry County to a high of 12.7 percent in Jackson County.

Figure 4: Driver Distraction by County**



** Unweighted data

Driver Distraction by roadway classification is displayed in Table 14. Drivers exhibiting visible distractions were highest on the Local roadway classification (8.6%), whereas drivers on the Collector roadway classification were the least distracted (3.9%).

Table 14: Driver Distraction by Roadway Classification**

Roadway Type	No Distraction Freq.	No Distraction Percent	Distraction Freq.	Distraction Percent
Arterial	20,625	95.1	1,056	4.9
Collector	2,592	96.1	106	3.9
Freeway / Expressway	26,595	94.8	1,462	5.2
Interstate	30,628	93.8	2,039	6.2
Local	1,829	91.4	172	8.6

** Unweighted data

When examining any distraction by Vehicle Type, drivers of Passenger Cars are the most distracted (6.0%). Table 15 shows distraction by drivers for vehicle type.

Table 15: Driver Distraction by Vehicle Type**

Vehicle Type	No Distraction Freq.	No Distraction Percent	Distraction Freq.	Distraction Percent
Passenger Cars	19,948	94.0	1,271	6.0
Sport Utility/ Crossover	35,450	94.6	2,044	5.4
Pickup Trucks	20,553	94.8	1,126	5.2
Van/ Minivan	6,318	94.1	394	5.9

** Unweighted data

Table 16 provides the distracted estimation by driver gender. Female drivers continue to be observed driving while distracted at a higher percent than male drivers.

Table 16: Driver Distraction by Gender**

Gender	No Distraction Freq.	No Distraction Percent	Distraction Freq.	Distraction Percent
Female	30,435	93.8	2,025	6.2
Male	51,834	94.9	2,810	5.1

**Unweighted Data

Table 17 displays the frequency of distracted driving observed by time of the day.

Table 17: Frequency, Driver Distraction Observed by Time of Day**

Time	Frequency	Percent	Cumulative Frequency	Cumulative Percent
7:00 am	403	8.3	403	8.3
8:00 am	354	7.3	757	15.6
9:00 am	314	6.5	1,071	22.1
10:00 am	370	7.7	1,441	29.8
11:00 am	477	9.9	1,918	39.7
12:00 pm	296	6.1	2,214	45.8
1:00 pm	336	7.0	2,550	52.8
2:00 pm	561	11.6	3,111	64.4
3:00 pm	479	9.9	3,590	74.3
4:00 pm	827	17.1	4,417	91.4
5:00 pm	418	8.6	4,835	100.0

**Unweighted Data

APPENDICES

A. Vehicle Occupant Fatalities by County, 2016-2020

B. Top Counties with 85% of Vehicle Occupant Fatalities, 2016-2020 (Map)

C. Random Selection of Counties for Sampling, 2016-2020 (Map)

D. County VMT by Functional Road Type, (2019 Data)

E. Site Summary Form

F. Observational Form

G. Alternate Site Selection – 2025

APPENDIX A

Vehicle Occupant Fatalities by County
2016-2020
Sorted by Descending Fatalities

County	2016-2020 Fatalities	5-year avg. Fatalities	% of Contribution	Cumulative % of Contribution
ST. LOUIS (CITY & COUNTY)	468	93.6	13.91%	13.9%
JACKSON	342	68.4	10.16%	24.1%
JEFFERSON	128	25.6	3.80%	27.9%
ST. CHARLES	107	21.4	3.18%	31.1%
GREENE	101	20.2	3.00%	34.1%
FRANKLIN	82	16.4	2.44%	36.5%
JASPER	62	12.4	1.84%	38.3%
CLAY	59	11.8	1.75%	40.1%
BOONE	53	10.6	1.58%	41.7%
NEWTON	53	10.6	1.58%	43.2%
PHELPS	50	10	1.49%	44.7%
CASS	49	9.8	1.46%	46.2%
CHRISTIAN	48	9.6	1.43%	47.6%
PLATTE	46	9.2	1.37%	49.0%
CAMDEN	45	9	1.34%	50.3%
CAPE GIRARDEAU	40	8	1.19%	51.5%
TANEY	40	8	1.19%	52.7%
JOHNSON	39	7.8	1.16%	53.8%
LINCOLN	39	7.8	1.16%	55.0%
LAWRENCE	38	7.6	1.13%	56.1%
BARRY	37	7.4	1.10%	57.2%
CALLAWAY	36	7.2	1.07%	58.3%
HOWELL	36	7.2	1.07%	59.4%
DUNKLIN	35	7	1.04%	60.4%
BUTLER	33	6.6	0.98%	61.4%
LACLEDE	33	6.6	0.98%	62.4%
MCDONALD	32	6.4	0.95%	63.3%
NEW MADRID	32	6.4	0.95%	64.3%
ST. FRANCOIS	32	6.4	0.95%	65.2%
COLE	31	6.2	0.92%	66.2%
MILLER	30	6	0.89%	67.0%
PETTIS	29	5.8	0.86%	67.9%
WEBSTER	27	5.4	0.80%	68.7%
BUCHANAN	25	5	0.74%	69.5%
DOUGLAS	25	5	0.74%	70.2%
LAFAYETTE	25	5	0.74%	70.9%
PULASKI	25	5	0.74%	71.7%
STODDARD	25	5	0.74%	72.4%

APPENDIX A, Continued

Vehicle Occupant Fatalities by County
2016-2020
Sorted by Descending Fatalities

County	2016-2020 Fatalities	5-year avg. Fatalities	% of Contribution	Cumulative % of Contribution
RAY	23	4.6	0.68%	73.1%
WASHINGTON	23	4.6	0.68%	73.8%
ANDREW	22	4.4	0.65%	74.4%
PEMISCOT	22	4.4	0.65%	75.1%
SCOTT	22	4.4	0.65%	75.8%
STONE	22	4.4	0.65%	76.4%
POLK	21	4.2	0.62%	77.0%
CRAWFORD	20	4	0.59%	77.6%
MORGAN	20	4	0.59%	78.2%
TEXAS	20	4	0.59%	78.8%
DEKALB	19	3.8	0.56%	79.4%
HENRY	19	3.8	0.56%	79.9%
AUDRAIN	18	3.6	0.53%	80.5%
COOPER	18	3.6	0.53%	81.0%
DALLAS	18	3.6	0.53%	81.5%
GASCONADE	18	3.6	0.53%	82.1%
OZARK	18	3.6	0.53%	82.6%
CARROLL	17	3.4	0.51%	83.1%
MONTGOMERY	17	3.4	0.51%	83.6%
OREGON	17	3.4	0.51%	84.1%
PERRY	17	3.4	0.51%	84.6%
ADAIR	16	3.2	0.48%	85.1%
MARION	16	3.2	0.48%	85.6%
STE. GENEVIEVE	16	3.2	0.48%	86.1%
The counties listed above had 85% of the Missouri fatalities Counties with the remaining 15% of fatalities are listed below.				
HOWARD	15	3	0.45%	86.5%
MARIES	15	3	0.45%	87.0%
RANDOLPH	15	3	0.45%	87.4%
WARREN	15	3	0.45%	87.8%
BENTON	14	2.8	0.42%	88.3%
DAVIESS	14	2.8	0.42%	88.7%
DENT	14	2.8	0.42%	89.1%
RALLS	14	2.8	0.42%	89.5%
RIPLEY	14	2.8	0.42%	89.9%
BATES	13	2.6	0.39%	90.3%
IRON	12	2.4	0.36%	90.7%
MISSISSIPPI	12	2.4	0.36%	91.0%
REYNOLDS	12	2.4	0.36%	91.4%
SALINE	12	2.4	0.36%	91.7%
VERNON	12	2.4	0.36%	92.1%
HICKORY	11	2.2	0.33%	92.4%
MACON	11	2.2	0.33%	92.7%
NODAWAY	11	2.2	0.33%	93.1%

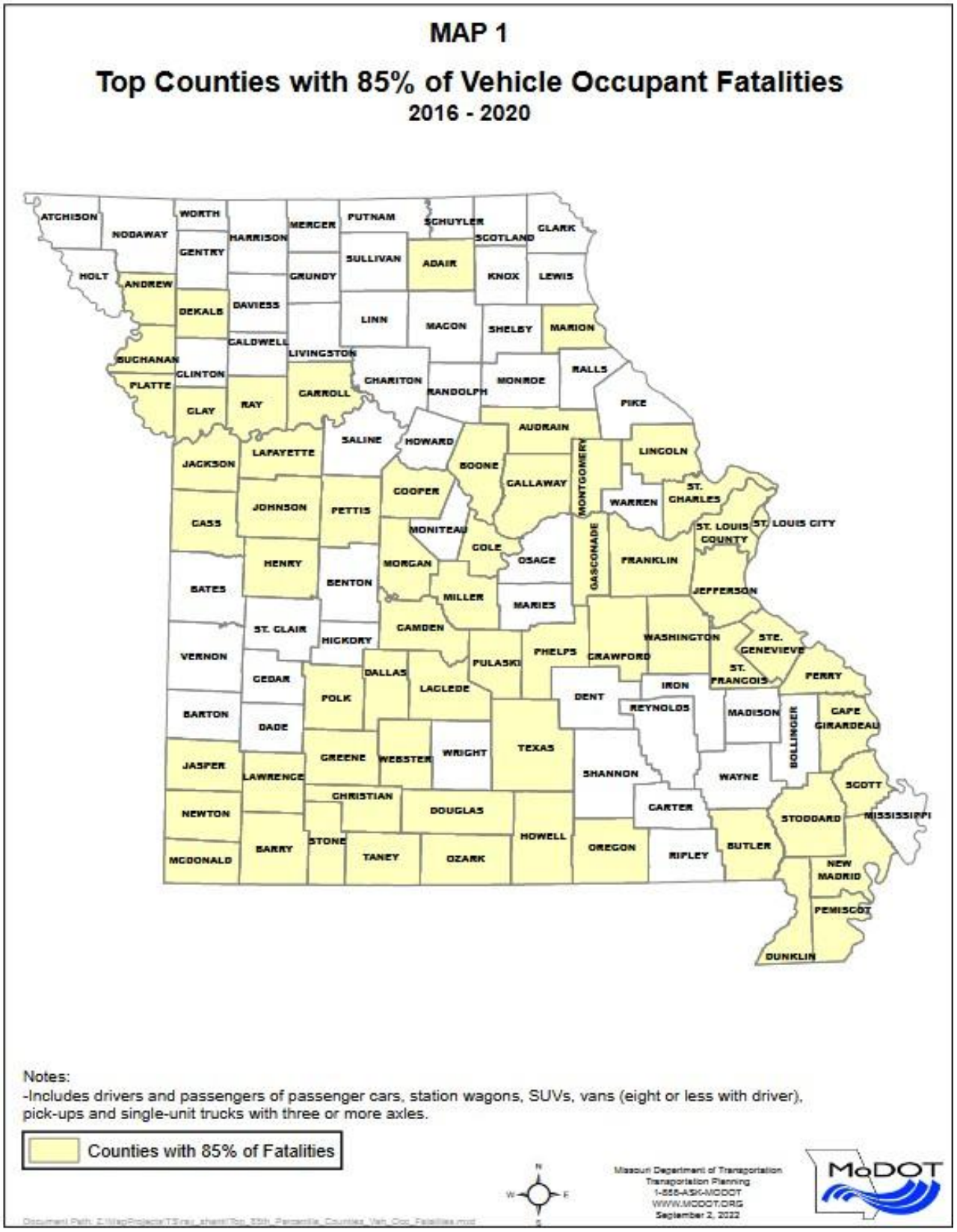
APPENDIX A, Continued

Vehicle Occupant Fatalities by County
2016-2020
Sorted by Descending Fatalities

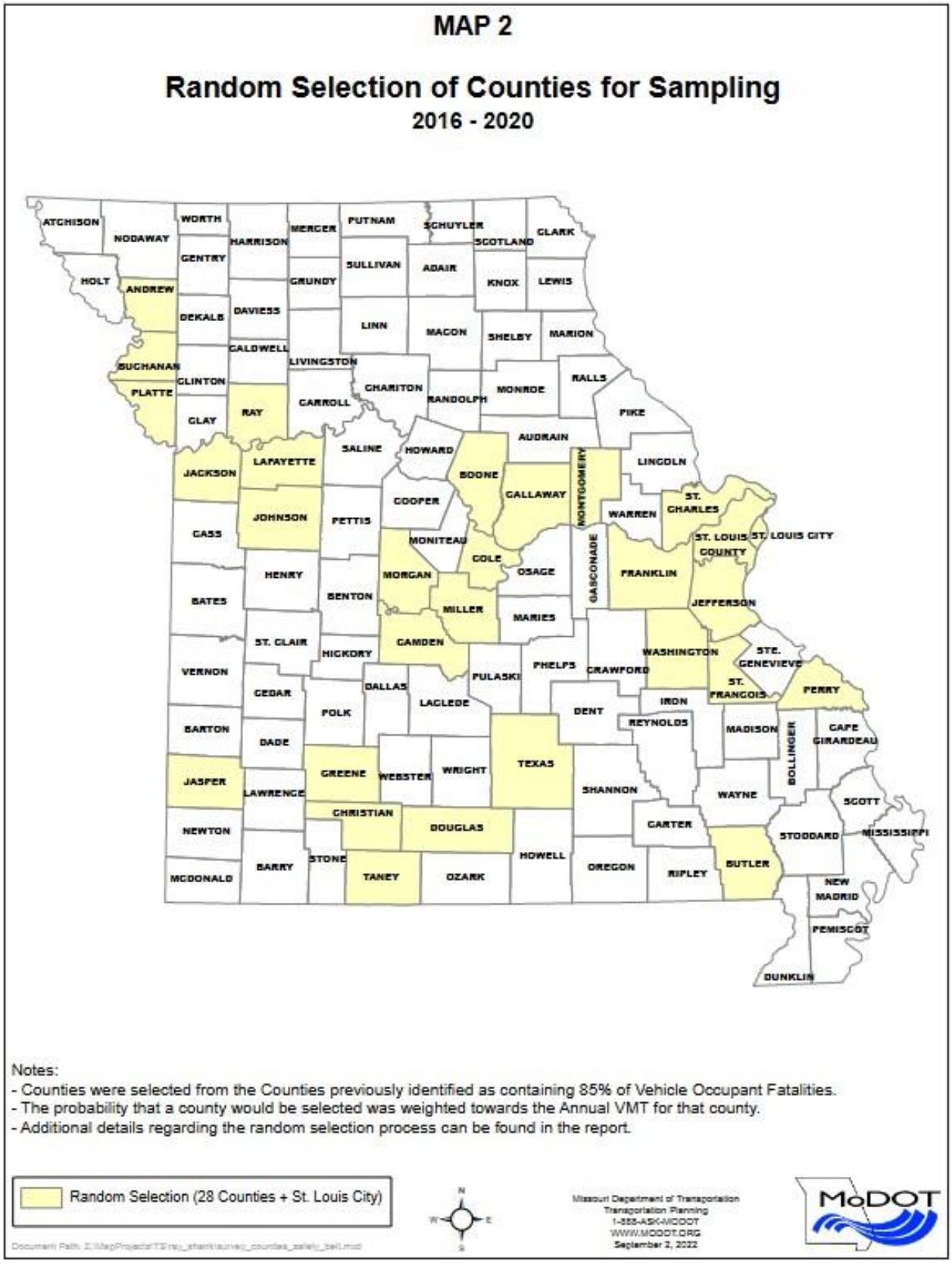
County	2016-2020 Fatalities	5-year avg. Fatalities	% of Contribution	Cumulative % of Contribution
SHANNON	11	2.2	0.33%	93.4%
CARTER	10	2	0.30%	93.7%
CLINTON	10	2	0.30%	94.0%
MADISON	10	2	0.30%	94.3%
WAYNE	10	2	0.30%	94.6%
CALDWELL	9	1.8	0.27%	94.9%
CEDAR	9	1.8	0.27%	95.1%
CLARK	9	1.8	0.27%	95.4%
DADE	9	1.8	0.27%	95.7%
HARRISON	9	1.8	0.27%	95.9%
LINN	9	1.8	0.27%	96.2%
LIVINGSTON	9	1.8	0.27%	96.5%
MONITEAU	9	1.8	0.27%	96.7%
SULLIVAN	9	1.8	0.27%	97.0%
BOLLINGER	8	1.6	0.24%	97.2%
OSAGE	8	1.6	0.24%	97.5%
SCOTLAND	8	1.6	0.24%	97.7%
PIKE	7	1.4	0.21%	97.9%
ST. CLAIR	7	1.4	0.21%	98.1%
WRIGHT	7	1.4	0.21%	98.3%
MONROE	6	1.2	0.18%	98.5%
ATCHISON	5	1	0.15%	98.7%
BARTON	5	1	0.15%	98.8%
GRUNDY	5	1	0.15%	99.0%
HOLT	5	1	0.15%	99.1%
MERCER	5	1	0.15%	99.3%
SCHUYLER	5	1	0.15%	99.4%
CHARITON	4	0.8	0.12%	99.5%
PUTNAM	4	0.8	0.12%	99.6%
SHELBY	4	0.8	0.12%	99.8%
LEWIS	3	0.6	0.09%	99.9%
KNOX	2	0.4	0.06%	99.9%
WORTH	2	0.4	0.06%	100.0%
GENTRY	1	0.2	0.03%	100.0%
Total	3365	673	100.00%	

Includes drivers and passengers of passenger cars, station wagons, SUVs, vans (eight or less with driver), pick-ups and single-unit trucks with three or more axles.

APPENDIX B


MAP 1
Top Counties with 85% of Vehicle Occupant Fatalities
2016 - 2020
ATCHISON
NODAWAY
WORTH
GENTRY
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
HOLT
ANDREW
DEKALB
DAVIESS
GRUNDY
SULLIVAN
ADAIR
KNOX
LEWIS
BUCHANAN
CLINTON
CALDWELL
LIVINGSTON
LINN
MACON
SHELBY
MARION
PLATTE
CLAY
RAY
CARROLL
CHARITON
RANDOLPH
MONROE
RALLS
PIKE
SALINE
HOWARD
AUDRAIN
JACKSON
LAFAYETTE
BOONE
CALLAWAY
MONTGOMERY
LINCOLN
COOPER
WARREN
ST. CHARLES
CASS
JOHNSON
PETTIS
MONITEAU
GOLE
OSAGE
GASCONADE
FRANKLIN
ST. LOUIS COUNTY
ST. LOUIS CITY
HENRY
BENTON
MORGAN
BATES
MILLER
MARIES
JEFFERSON
ST. CLAIR
HICKORY
CAMDEN
WASHINGTON
STE. GENEVIEVE
VERNON
PULASKI
PHELPS
CRAWFORD
ST. FRANCOIS
PERRY
CEDAR
DALLAS
POLK
LACLEDE
IRON
DENT
REYNOLDS
MADISON
CAPE GIRARDEAU
BARTON
DADE
GREENE
WEBSTER
WRIGHT
TEXAS
SHANNON
WAYNE
BOLLINGER
JASPER
LAWRENCE
CHRISTIAN
SCOTT
NEWTON
DOUGLAS
CARTER
STODDARD
MISSISSIPPI
STONE
HOWELL
OREGON
RIPLEY
BUTLER
MCDONALD
BARRY
TANEY
OZARK
NEW MADRID
PEMISCOT
DUNKLIN
Notes:
-Includes drivers and passengers of passenger cars, station wagons, SUVs, vans (eight or less with driver), pick-ups and single-unit trucks with three or more axles.
Counties with 85% of Fatalities
N
W
E
S
Missouri Department of Transportation
Transportation Planning
1-888-ASK-MODOT
WWW.MODOT.ORG
September 2, 2022
MoDOT

APPENDIX C


MAP 2
Random Selection of Counties for Sampling
2016 - 2020
ATCHISON
NODAWAY
WORTH
HARRISON
MERCER
PUTNAM
SCHUYLER
SCOTLAND
CLARK
GENTRY
SULLIVAN
ADAIR
KNOX
LEWIS
HOLT
ANDREW
GRUNDY
DEKALB
DAVIESS
LINN
MACON
SHELBY
MARION
CALDWELL
LIVINGSTON
BUCHANAN
CLINTON
CHARITON
RALLS
PLATTE
CARROLL
RANDOLPH
MONROE
PIKE
CLAY
RAY
AUDRAIN
SALINE
HOWARD
LINCOLN
JACKSON
LAFAYETTE
BOONE
MONTGOMERY
COOPER
GALLAWAY
WARREN
ST. CHARLES
CASS
JOHNSON
PETTIS
MONITEAU
ST. LOUIS
ST. LOUIS CITY
COUNTY
COLE
OSAGE
GASCONADE
FRANKLIN
HENRY
MORGAN
BATES
BENTON
MILLER
MARIES
JEFFERSON
ST. CLAIR
CAMDEN
WASHINGTON
STE. GENEVIEVE
HICKORY
VERNON
PULASKI
PHELPS
CRAWFORD
ST. FRANCOIS
PERRY
CEDAR
DALLAS
IRON
POLK
LACLEDE
DENT
REYNOLDS
MADISON
BARTON
DADE
CAPE GIRARDEAU
BOLLINGER
GREENE
WEBSTER
WRIGHT
TEXAS
JASPER
LAWRENCE
SHANNON
WAYNE
SCOTT
CHRISTIAN
CARTER
NEWTON
DOUGLAS
STODDARD
MISSISSIPPI
HOWELL
BARRY
STONE
OREGON
BUTLER
MCDONALD
TANEY
OZARK
RIPLEY
NEW MADRID
PEMISCOT
DUNKLIN
Notes:
- Counties were selected from the Counties previously identified as containing 85% of Vehicle Occupant Fatalities.
- The probability that a county would be selected was weighted towards the Annual VMT for that county.
- Additional details regarding the random selection process can be found in the report.
Random Selection (28 Counties + St. Louis City)
N
W
E
S
Missouri Department of Transportation
Transportation Planning
1-888-ASK-MODOT
WWW.MODOT.ORG
September 2, 2022
MoDOT

APPENDIX D

County VMT by Functional Road Type (State System Only)

Notes:
- County VMT obtained from MoDOT Datazone tool (2019 Data)
- Arterial Annual VMT includes Major and Minor Arterials
- Collector Annual VMT includes Major and Minor Collectors
- Yellow highlighted cells were manually adjusted by +/- 1 to account for rounding errors or cap the sample segments to the maximum available in order to achive a total of 20 road segments to sample per county
- Red highlighted cells have no available segments to use as alternate segments
-Local data was included only for counties that have a Metropolitan Statistical Area (MSA)

County	Functional Classification	Annual VMT	% of Annual VMT	# of Segments to Sample	Available Segments	Prob. Of Selection	Alternate Segments
ANDREW	Interstate	355,058	35.79%	7	16	43.75%	3
	Freeway/Expressway	156,712	15.80%	3	24	12.50%	3
	Arterial	152,924	15.41%	3	36	8.33%	3
	Collector	102,059	10.29%	2	132	1.52%	3
	Local	225,374	22.72%	5	24	20.83%	3
	Totals	992,127	100.00%	20	232	8.62%	-
BOONE	Interstate	1,023,770	19.32%	4	26	15.38%	3
	Freeway/Expressway	1,267,664	23.92%	5	50	10.00%	3
	Arterial	1,239,614	23.40%	5	311	1.61%	3
	Collector	531,248	10.03%	2	407	0.49%	3
	Local	1,236,270	23.33%	4	164	2.44%	3
	Totals	5,298,566	100.00%	20	958	2.09%	-
BUCHANAN	Interstate	773,116	28.67%	6	46	13.04%	3
	Freeway/Expressway	239,228	8.87%	2	26	7.69%	3
	Arterial	760,190	28.19%	6	248	2.42%	3
	Collector	313,527	11.63%	2	312	0.64%	3
	Local	610,804	22.65%	4	108	3.70%	3
	Totals	2,696,865	100.00%	20	740	2.70%	-
BUTLER	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	526,015	42.29%	8	39	20.51%	3
	Arterial	435,768	35.04%	7	125	5.60%	3
	Collector	281,921	22.67%	5	201	2.49%	3
	Totals	1,243,704	100.00%	20	365	5.48%	-
CALLAWAY	Interstate	985,619	34.89%	7	12	58.33%	3
	Freeway/Expressway	735,528	26.03%	5	43	11.63%	3
	Arterial	178,249	6.31%	1	91	1.10%	3
	Collector	269,312	9.53%	2	218	0.92%	3
	Local	656,626	23.24%	5	117	4.27%	3
	Totals	2,825,334	100.00%	20	481	4.16%	-
CAMDEN	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	407,148	32.44%	7	20	35.00%	3
	Arterial	580,791	46.27%	9	80	11.25%	3
	Collector	267,291	21.29%	4	110	3.64%	3
	Totals	1,255,230	100.00%	20	210	9.52%	-
CHRISTIAN	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	791,222	35.33%	7	21	33.33%	3
	Arterial	689,688	30.79%	6	102	5.88%	3
	Collector	251,574	11.23%	2	127	1.57%	3
	Local	507,206	22.65%	5	25	20.00%	3
	Totals	2,239,690	100.00%	20	275	7.27%	-
COLE	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	1,078,331	43.60%	9	70	12.86%	3
	Arterial	522,780	21.14%	4	215	1.86%	3
	Collector	307,103	12.42%	2	181	1.10%	3
	Local	564,847	22.84%	5	168	2.98%	3
	Totals	2,473,061	100.00%	20	634	3.15%	-

APPENDIX D, Continued

County VMT by Functional Road Type (State System Only)

County	Functional Classification	Annual VMT	% of Annual VMT	# of Segments to Sample	Available Segments	Prob. Of Selection	Alternate Segments
DOUGLAS	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	154,000	56.19%	11	56	19.64%	3
	Collector	120,076	43.81%	9	172	5.23%	3
	Totals	274,076	100.00%	20	228	8.77%	-
FRANKLIN	Interstate	1,299,537	31.00%	6	32	18.75%	3
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	1,353,157	32.28%	6	238	2.52%	3
	Collector	561,968	13.41%	3	416	0.72%	3
	Local	977,097	23.31%	5	156	3.21%	3
	Totals	4,191,759	100.00%	20	842	2.38%	-
GREENE	Interstate	1,211,687	12.88%	3	27	11.11%	3
	Freeway/Expressway	3,077,561	32.72%	6	152	3.95%	3
	Arterial	2,160,108	22.97%	5	408	1.23%	3
	Collector	814,654	8.66%	2	428	0.47%	3
	Local	2,140,892	22.76%	4	211	1.90%	3
	Totals	9,404,902	100.00%	20	1226	1.63%	-
JACKSON	Interstate	7,134,376	32.55%	7	145	4.83%	3
	Freeway/Expressway	2,711,338	12.37%	2	102	1.96%	3
	Arterial	5,966,101	27.22%	5	1050	0.48%	3
	Collector	1,066,725	4.87%	1	545	0.18%	3
	Local	5,040,765	23.00%	5	484	1.03%	3
	Totals	21,919,305	100.00%	20	2326	0.86%	-
JASPER	Interstate	1,030,035	26.25%	5	38	13.16%	3
	Freeway/Expressway	232,212	5.92%	1	20	5.00%	3
	Arterial	1,296,464	33.04%	7	422	1.66%	3
	Collector	452,791	11.54%	2	338	0.59%	3
	Local	912,218	23.25%	5	163	3.07%	3
	Totals	3,923,720	100.00%	20	981	2.04%	-
JEFFERSON	Interstate	1,737,353	25.63%	5	22	22.73%	3
	Freeway/Expressway	1,072,571	15.82%	3	31	9.68%	3
	Arterial	1,642,823	24.23%	5	236	2.12%	3
	Collector	769,034	11.34%	2	499	0.40%	3
	Local	1,557,173	22.97%	5	182	2.75%	3
	Totals	6,778,954	100.00%	20	970	2.06%	-
JOHNSON	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	661,559	50.26%	10	32	31.25%	3
	Arterial	368,810	28.02%	6	153	3.92%	3
	Collector	285,791	21.71%	4	213	1.88%	3
	Totals	1,316,160	100.00%	20	398	5.03%	-
LAFAYETTE	Interstate	947,555	49.87%	10	17	58.82%	3
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	260,392	13.70%	3	78	3.85%	3
	Collector	236,511	12.45%	2	174	1.15%	3
	Local	455,527	23.98%	5	66	7.58%	3
	Totals	1,899,985	100.00%	20	335	5.97%	-
MILLER	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	367,548	44.19%	8	22	36.36%	3
	Arterial	273,885	32.93%	7	79	8.86%	3
	Collector	190,316	22.88%	5	118	4.24%	3
	Totals	831,749	100.00%	20	219	9.13%	-
MONTGOMERY	Interstate	763,370	78.25%	10	10	100.00%	0
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	153,754	15.76%	7	47	14.89%	3
	Collector	58,415	5.99%	3	96	3.13%	3
	Totals	975,539	100.00%	20	153	13.07%	-

APPENDIX D, Continued

County VMT by Functional Road Type (State System Only

County	Functional Classification	Annual VMT	% of Annual VMT	# of Segments to Sample	Available Segments	Prob. Of Selection	Alternate Segments
MORGAN	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	387,089	72.95%	15	78	19.23%	3
	Collector	143,500	27.05%	5	99	5.05%	3
	Totals	530,589	100.00%	20	177	11.30%	-
PERRY	Interstate	313,355	47.79%	8	8	100.00%	0
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	180,129	27.47%	6	62	9.68%	3
	Collector	162,159	24.73%	6	159	3.77%	3
	Totals	655,643	100.00%	20	229	8.73%	-
PLATTE	Interstate	2,120,119	46.48%	9	61	14.75%	3
	Freeway/Expressway	342,741	7.51%	2	26	7.69%	3
	Arterial	770,258	16.89%	3	159	1.89%	3
	Collector	282,583	6.19%	1	172	0.58%	3
	Local	1,045,842	22.93%	5	112	4.46%	3
	Totals	4,561,543	100.00%	20	530	3.77%	-
RAY	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	237,483	44.11%	9	99	9.09%	3
	Collector	178,240	33.11%	7	157	4.46%	3
	Local	122,609	22.78%	4	20	20.00%	3
	Totals	538,332	100.00%	20	276	7.25%	-
ST. CHARLES	Interstate	3,556,941	30.03%	6	52	11.54%	3
	Freeway/Expressway	1,683,579	14.21%	3	48	6.25%	3
	Arterial	2,627,922	22.19%	4	333	1.20%	3
	Collector	1,272,395	10.74%	2	503	0.40%	3
	Local	2,703,219	22.82%	5	158	3.16%	3
	Totals	11,844,056	100.00%	20	1094	1.83%	-
ST. FRANCOIS	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	682,685	40.27%	8	34	23.53%	3
	Arterial	345,291	20.37%	4	184	2.17%	3
	Collector	280,387	16.54%	3	197	1.52%	3
	Local	386,836	22.82%	5	109	4.59%	3
	Totals	1,695,199	100.00%	20	524	3.82%	-
ST. LOUIS CITY & COUNTY	Interstate	18,168,178	41.46%	8	290	2.76%	3
	Freeway/Expressway	2,190,326	5.00%	1	76	1.32%	3
	Arterial	10,370,136	23.66%	5	1494	0.33%	3
	Collector	3,122,224	7.12%	1	1526	0.07%	3
	Local	9,969,953	22.75%	5	807	0.62%	3
	Totals	43,820,817	100.00%	20	4193	0.48%	-
TANEY	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	602,371	38.22%	8	24	33.33%	3
	Arterial	577,741	36.66%	7	84	8.33%	3
	Collector	396,042	25.13%	5	134	3.73%	3
	Totals	1,576,154	100.00%	20	242	8.26%	-
TEXAS	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	182,164	25.52%	5	12	41.67%	3
	Arterial	378,610	53.03%	11	112	9.82%	3
	Collector	153,164	21.45%	4	200	2.00%	3
	Totals	713,938	100.00%	20	324	6.17%	-
WASHINGTON	Interstate	-	0.00%	0	0	0.00%	-
	Freeway/Expressway	-	0.00%	0	0	0.00%	-
	Arterial	322,076	66.98%	13	44	29.55%	3
	Collector	158,811	33.02%	7	97	7.22%	3
	Totals	480,887	100.00%	20	141	14.18%	-

APPENDIX E

Statewide Seat Belt Survey

Site Summary Form

Observer: _____ County: _____

Date: _____ Time: Start _____ End _____

Road Condition: O Dry O Wet O Fog O Other: _____

Observation Point (be specific): _____

_____

_____

Major Distractions: _____

PLEASE COMPLETE ALL INFORMATION ABOVE THIS LINE

County

O 01-Andrew
O 02-Boone
O 03-Buchanan
O 04-Butler
O 05-Callaway
O 06-Camden
O 07-Christian
O 08-Cole
O 09-Douglas
O 10-Franklin
O 11-Greene
O 12-Jackson
O 13-Jasper
O 14-Jefferson
O 15-Johnson
O 16-Lafayette
O 17-Miller
O 18-Montgomery
O 19-Morgn
O 20-Perry
O 21-Platte
O 22-Ray
O 23-St. Charles
O 24-St. Francois
O 25-St. Louis
O 26-Taney
O 27-Texas
O 28-Washington

Traffic Flow

O North
O East
O South
O West

Site Type

O Primary
O Alternate

Day of the Week

O Sunday
O Monday
O Tuesday
O Wednesday
O Thursday
O Friday
O Saturday

Start Time

O 7:00 AM
O 8:00 AM
O 9:00 AM
O 10:00 AM
O 11:00 AM
O 12:00 PM
O 1:00 PM
O 2:00 PM
O 3:00 PM
O 4:00 PM
O 5:00 PM

Road Segment

O 1 O 19
O 2 O 20
O 3 O 21
O 4 O 22
O 5 O 23
O 6 O 24
O 7 O 25
O 8 O 26
O 9 O 27
O 10 O 28
O 11 O 29
O 12 O 30
O 13 O 31
O 14 O 32
O 15 O 33
O 16 O 34
O 17 O 35
O 18

Road Type

O Interstate (I)
O Freeway/Expressway (F/E)
O Arterial (A)
O Collector (C)
O Local (L)

APPENDIX F

County:	O	O	0	**Road Segment:**	O	O	0	**Date:**	O	O	0
	O	O	1		O	O	1		O	O	1
_____	O	O	2	_____	O	O	2	_____	O	O	2
Observer:	O	O	3		O	O	3		O	O	3
	O	O	4		O	O	4		O	O	4
_____	O	O	5		O	O	5		O	O	5
	O	O	6		O	O	6		O	O	6
	O	O	7		O	O	7		O	O	7
Page:_____ of _____	O	O	8		O	O	8		O	O	8
	O	O	9		O	O	9		O	O	9

	Vehicle Type				Distracted	Driver Belted			Driver Gender		Passenger Belted		
	Car	Truck	Minivan/ Van	SUV Crossover/	Yes	Yes	No	Un-known	M	F	Yes	No	Un-known
1.	O	O	O	O	O	O	O	O	O	O	O	O	O
2.	O	O	O	O	O	O	O	O	O	O	O	O	O
3.	O	O	O	O	O	O	O	O	O	O	O	O	O
4.	O	O	O	O	O	O	O	O	O	O	O	O	O
5.	O	O	O	O	O	O	O	O	O	O	O	O	O
6.	O	O	O	O	O	O	O	O	O	O	O	O	O
7.	O	O	O	O	O	O	O	O	O	O	O	O	O
8.	O	O	O	O	O	O	O	O	O	O	O	O	O
9.	O	O	O	O	O	O	O	O	O	O	O	O	O
10.	O	O	O	O	O	O	O	O	O	O	O	O	O
11.	O	O	O	O	O	O	O	O	O	O	O	O	O
12.	O	O	O	O	O	O	O	O	O	O	O	O	O
13.	O	O	O	O	O	O	O	O	O	O	O	O	O
14.	O	O	O	O	O	O	O	O	O	O	O	O	O
15.	O	O	O	O	O	O	O	O	O	O	O	O	O
16.	O	O	O	O	O	O	O	O	O	O	O	O	O
17.	O	O	O	O	O	O	O	O	O	O	O	O	O
18.	O	O	O	O	O	O	O	O	O	O	O	O	O
19.	O	O	O	O	O	O	O	O	O	O	O	O	O
20.	O	O	O	O	O	O	O	O	O	O	O	O	O

APPENDIX G

Alternate Site Selection - 2026

County	Primary Site	Alternate Site	Reason for Using Alternate
Boone	14	19	Road Construction
Boone	22	28	Road Construction
Boone	18	20	No safe location at Primary Site for traffic observation
Buchanan	21	26	Road Construction
Butler	26	27	No safe location at Primary Site for traffic observation
Franklin	16	22	No safe location at Primary Site for traffic observation
Greene	32	35	No safe location at Primary Site for traffic observation
Jackson	2	6	Road Construction
Jackson	4	7	Road Construction
Jackson	14	16	No safe location at Primary Site for traffic observation
Jackson	24	26	Road Construction
Jackson	29	35	No safe location at Primary Site for traffic observation
Jasper	5	10	No safe location at Primary Site for traffic observation
Jasper	30	35	Road Construction
Jefferson	24	26	Road Construction
Lafayette	2	5	No safe location at Primary Site for traffic observation
Platte	12	14	Private Property
St. Charles	20	26	No safe location at Primary Site for traffic observation
St. Louis	13	16	No safe location at Primary Site for traffic observation
Taney	20	29	No safe location at Primary Site for traffic observation
Taney	26	28	No safe location at Primary Site for traffic observation
Texas	22	29	No safe location at Primary Site for traffic observation