

**2019**  
**State of Colorado**  
**Statewide**  
**Seat-belt Survey**

**Colorado Department of**  
**Transportation**

**Seat-belt Study**



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# PREFACE

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This report is the result of a statewide seat-belt usage study conducted for the Colorado Department of Transportation (CDOT), Office of Transportation Safety (OTS). The objective was to provide an estimate of the seat-belt usage rate for the State of Colorado in 2019.

To accomplish this objective, researchers conducted a comprehensive statewide seat-belt usage survey at selected observation sites throughout the state. A team of observers was trained in the process of direct observations of traffic, and to properly collect and record data during a two-week period (June 2 to June 15, 2019). This process determined seat-belt usage among Colorado drivers and outboard front seat passengers. CDOT and the Office of Transportation Safety can use this data gathered from this study to make accurate decisions on future transportation safety programs.

Atelior is pleased to work with the Office of Transportation Safety in completing this 2019 Colorado Statewide Seat-belt Study. The design takes into consideration population movements and trends within the State of Colorado and therefore provides a realistic picture of seat-belt usage in the state. By submitting this report, the project objectives have been completed within the time parameters and budget agreed to by both CDOT and Atelior. I am fully confident that the data and the analysis submitted to CDOT/OTS are accurate and complete.

D. Todd Donavan

Principle Investigator, Atelior

# EXECUTIVE SUMMARY

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Atelior, LLC conducted a comprehensive seat-belt usage study in the State of Colorado from June 2 to June 15, 2019. Trained observers collected data at 770 sites in 31 counties. A total of 148,095 vehicles were observed, including cars, vans, sports utility vehicles (SUVs), pickup trucks, and select commercial vehicles (10,000 pounds and under). Drivers and front seat outboard passengers of the eligible vehicles were observed for seat-belt usage at predetermined observation sites throughout the state.

Dr. D. Todd Donovan, served as Principle Investigator, Jon Schroth as Project Coordinator, Tom Petersen Administration/Oversight, Richard Motzkus Field Administration, and Todd Tuell served as lead statistician for the data analysis.

Field observers and supervisors were trained by the Atelior team in observation and recording methods in order to properly conduct the field survey and collect data. The need for consistency and accuracy in the process of data collection was emphasized in the training and pre-survey phase of the study. Each observer was supplied with data collection sheets, maps, and site locations, as well as safety vests and hard hats.

As in previous seat-belt usage surveys, retired Colorado State Highway Patrol Officers were used as observers whenever possible. Because of their familiarity with interstate and state highways, as well as local and county roads and safety procedures, many potential location and safety problems were minimized. The retired patrol officers have proven to be very conscientious and reliable. Their experience helps strengthen the validity of the results. This staffing arrangement worked very well, and the continued use of the patrol officers is planned for future studies. By using independent contractors, Atelior has taken measures to ensure the integrity of the survey and analysis while involving people in the study who have the most relevant skills.

The data collected through the observations were recorded, summarized, and entered into appropriate categories for analysis. Analysis of the data yielded the following seat-belt usage results among the various vehicle types:

**Table 1.0: Statewide Seat-belt Usage by Vehicle Type**

	<b># of Sites</b>	<b>Estimate %</b>	<b>Std Error</b>	<b>CV %</b>	<b>Lower 95% Limit</b>	<b>Upper 95% Limit</b>
Car	770	88.3	0.6	0.69	87.1	89.5
Van	770	90.1	0.8	0.84	88.6	91.5
SUV	770	92.0	0.4	0.42	91.2	92.7
Truck	770	82.6	0.7	0.80	81.3	83.9
Commercial	770	75.8	1.3	1.74	73.2	78.4
<b>Overall</b>	<b>770</b>	<b>88.3</b>	<b>0.5</b>	<b>0.51</b>	<b>87.4</b>	<b>89.2</b>

The results demonstrate an overall seat-belt usage rate of 88.3% with a 95% confidence interval range of 87.4% to 89.2%. The highest percentage usage was among SUV drivers at 92% with Vans following close behind at 90.1%. the lowest category of seat-belt usage was among commercial vehicles at 75.8%.

Historical Statewide usage rates, county usage rates, speed of vehicles, and road classification data will be presented under the “Results” section of this report. A conclusion section will provide an overall summary of the study followed by Appendices which contain examples of the forms and processes used during the survey stage of the study as well as site locations.

# SURVEY DESIGN AND METHODOLOGY

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The 2019 Colorado Statewide Seat-belt Usage Survey was designed to meet all requirements established by the Uniform Criteria for State Observational Surveys of Seat-belt Use issued by the National Highway Traffic Safety Administration (NHTSA) Final Rule, Federal Register, Vol. 76, No. 63, April 1, 2011.

As required by the “Final Rule,” the counties that account for 85% of the crash-related fatalities in the state are to be included in the survey sample. As shown in Appendix 1, 26 of the 64 counties accounted for 85% of the fatalities for the period of 2010-2014. These counties thus comprise the sample frame and were used as strata for sampling road segments.

Since the 2013 Statewide study, a few substitutions of counties have been made from the initial counties included. The Original list included 29 countries. From that list the following eight counties are now eliminated: La Planta, Routt, Montezuma, Huerfano, Grand, Baca, Logan, and Alamosa. The following counties were added which makes the current sample of counties 31: Clear Creek, Gunnison, Kit Carson, Moffat, and Otero.

Road segments were selected systematically with probability proportional to size (PPS) from all segments in the stratified counties. The road segments were serpentine sorted by latitude and longitude within counties, which makes the sampling spatially more uniform within counties.

Roads within the counties were grouped using the State’s classification of “primary,” “secondary”, and “local” roads. All road segments in the sample counties were identified, and a sample of these segments were selected for observation. All road segments in the sample counties were identified, and a sample of these segments was selected for observation. Definitions for road segments are provided in Appendix 2, and the selected road segments within each county are listed in Appendix 3. Appendix 4 illustrates the weights of the segments within each county that were used in the calculation of the estimate of the statewide seat-belt usage.

## Sample Size

There were 770 statewide sites chosen for the seat-belt survey with all 770 sites providing observations for this study. In selecting the sample, stratification by county was employed as well as an unequal weighting by road class. Each county had either 11 or 44 sites chosen for observations.

Sample size determination was, in large measure, governed by time constraints and the precision requirement of the study (the coefficient of variation %: standard error divided by the parameter estimate\*100  $\leq 2.5$ ). A decision as to how many roadways to select and assign for observation during the observation period required a balance between issues of statistical reliability and observer productivity. Statistical theory, which considers correlations and the need for independent observation, would suggest that the number of roadway locations be as large as



possible. However, there was a practical need to select an optimal number of road segments for study so that observers would not spend an inordinate amount of time traveling from site to site. With all of those issues in mind, as well as the needs of the contracting organization, a total sample of 770 observational time periods and sites were observed.

### Data Collection and Analysis

Observers and quality control monitors were trained in the appropriate procedures for observing seat-belt usage and recording data. Scheduling, site locations, and internal operational protocol were included in the training syllabus which also gives an overview of the topics covered during the session held on Friday, April 5, 2019.

For the purpose of this survey, an observational site was defined as a specific road intersection or interstate ramp where observations take place. Observations were conducted at each site for 40 minutes of each hour between the hours of 7:00 a.m. and 6:00 p.m. during a period of two consecutive weeks (June 2 through June 15, 2019). Twenty minutes were allowed for recording data and moving to the next observation site. Start times and days were staggered in order to have a representative sample of days of the week and peak and non-peak traffic. When possible, traffic was observed, for safety reasons, from inside the sample road segment at or near the point where the traffic was leaving the segment.

Drivers and front seat outboard passengers were observed in cars, vans, pickup trucks, SUVs, and select commercial vehicles (10,000 pounds and under). Observers generally chose one lane of traffic traveling in one direction to observe seat-belt usage. The data were recorded as “yes,” “no,” or “non-observable” for the driver and front seat outboard passenger.

### Analysis Methodology

Driver and passenger observation data was combined with site characteristic data to create the input data file. Sampling weights were derived and utilized in the analysis.

The R Survey package was utilized to analyze the observation data. The overall usage estimate (percentage) and usage estimates by vehicle type were calculated using the svratio function. For the usage estimates by the various domains (vehicle speed, road class, and county) the svyby function was used. Both the svratio and svyby functions take into account the design used in selecting the sample. The cv and coef functions were employed to calculate the coefficients of variation and 95% confidence interval limits for the estimates.

In Summary, the research design included the following elements that were critical to the study:

1. Samples were probability-based from the population of road segments within each county, yielding unbiased estimates of seat-belt usage for the State's driver and outboard front seat passenger population for vehicles falling within the parameters of this study.

2. The sample data were collected through direct observation of seat-belt usage at the predetermined sites by qualified and trained observers. Observation times were assigned and rescheduled if weather interfered or other conditions existed which made observations at a particular site unsafe or unproductive.
3. The population of interest was the driver and outboard front seat passenger of cars, vans, SUVs, light trucks, and select commercial vehicles (10,000 pounds and under).
4. Observations were conducted in daylight hours from June 2 through June 15, 2019 between the hours of 7:00 AM and 6:00 PM.
5. Observation start times were staggered in order to obtain a representative sample from rush hour (peak traffic) and non-rush hour (non-peak traffic) time frames.
6. Observational data were recorded on counting sheets and summarized (See Appendix 7). The data were then transcribed to create a digital record and entered onto field summary forms, which served as input into the R survey package for data reduction.

#### Sample Characteristics

- 770 of 770 sites observed.
- 148,095 vehicles were observed
- 182,193 occupants (both drivers and passengers) were observed
- 5,791 occupants were unable to be observed
  - 5,089 of these were drivers
  - This represents 3.2% of all individuals (observable + non-observable)
  - Non-observable rates by vehicle type

<b>Vehicle Type</b>	<b>2019</b>
Car	3.1%
Van	1.9%
SUV	2.5%
Truck	5.0%
Commercial	3.6%
Overall	3.2%

# RESULTS

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The 2019 Colorado Statewide Seat-belt Usage Survey is complete. As shown in Table 2.0 below, the statewide seat-belt usage for Colorado (cars, vans, SUVs, pickup trucks, and select commercial vehicles (10,000 pounds and less) stood at an average 88.3%. A 95% confidence interval constructed around the mean gives an overall usage rate of 87.4% to 89.2%.

**Table 2.0: Historical Statewide Usage Rates (%)**  
(from zumBrunnen spreadsheet data)

	2012	2013	2014	2015	2016	2017	2018	2019
<b>Car</b>	82.3	82.6	83.1	85.2	83.9	83.7	86.0	88.3
<b>Van</b>	85.2	86.9	87.3	89.2	89.5	87.2	88.0	90.1
<b>SUV</b>	84.6	86.7	87.1	89.9	89.2	88.5	90.8	92.0
<b>Truck</b>	71.7	73.0	72.4	77.6	76.1	76.5	80.1	82.6
<b>Commercial</b>	65.1	65.5	67.5	73.9	68.2	70.8	74.7	75.8
<b>Overall</b>	80.7	82.1	82.4	85.2	84.0	83.8	86.3	88.3

Table 2 also illustrates the historic rates over the past seven years. The rates of seat-belt usage have remained fairly consistent over this time period, with a gradual small increase across all five vehicle types. The overall rate of 88.3% is a 9% increase since 2012. If we look at the granular changes in the specific vehicle types, seat-belt usage increased the most among Commercial Vehicles with a 16.4% increase since 2012. The increases for each of the five categories from 2012 to 2019 are as follows: Cars 7.3%, Vans 5.8%, SUVs 8.7%, Trucks 15.2% and Commercial vehicles 16.4%. It should be pointed out that while Vans had the lowest percentage increase over this time period, Vans are 1) the highest usage rate at 90.1% and 2) there is a ceiling effect, that is, it is harder for this category to grow as much since it was already at the highest rate among all categories.

It should be noted that in secondary law states, like Colorado, a high seat-belt usage rate requires considerable investment in media. Educational efforts must be significant in order to maintain constant usage rates and to make even small gains.

### Seat-belt Usage and Speed

This study also compared seat-belt usage and speed of the vehicles. As in previous studies, there appears to be a strong correlation between speed and seat-belt usage. Table 3.0 below demonstrates that at higher speeds, drivers are more likely to wear their seat-belts. For instance, when driving at or above 50 miles per hour, seat-belts are used at a rate of 91.2%, but when the vehicle is moving somewhere between 0-30, seat-belt usage drops to 86%.

**Table 3.0: Statewide Seat-belt Usage by Vehicle Speed**

	<b># of Sites</b>	<b>Estimate %</b>	<b>Std Error</b>	<b>CV %</b>	<b>Lower 95% Limit</b>	<b>Upper 95% Limit</b>
0-30 miles per hour	160	86	1	1.19	83.9	88
31-50 miles per hour	311	88.6	0.6	0.71	87.3	89.8
Greater than 50 miles per hour	299	91.2	0.4	0.41	90.4	91.9

### Seat-belt Usage and Road Class

Table 4.0 below provides the data regarding seat-belt usage versus road class. Drivers / passengers are more likely to wear their seat-belt while driving on a Primary road rather than a Secondary or Local road. These differences may be attributed to the speed of the various road classifications. The Local Road classification is used more for neighborhood short trips which tend to be slower driving. Drivers appear to be less likely to wear the seat-belt during a short, slower speed trip.

**Table 4.0: Statewide Seat-belt Usage by Road Class**

	<b># of Sites</b>	<b>Estimate %</b>	<b>Std Error</b>	<b>CV %</b>	<b>Lower 95% Limit</b>	<b>Upper 95% Limit</b>
Primary	102	92.3	0.5	0.5	91.4	93.2
Secondary	437	88.8	0.3	0.38	88.2	89.5
Local	231	87.9	0.6	0.66	86.7	89

**Seat-belt Usage by County**

The data on seat-belt usage by County may be related to whether the county is Urban or Rural. However, there is not a strong correlation between population base and seat-belt usage. For example, several of the larger populated counties have seat-belt usage at or around 90%, including Arapahoe (92.4%), Denver (91.1%), and Douglas (90.2%) counties. Each of these counties have populations in excess of 342,000. On the other hand, Fremont county has a mere population of 48,021 people, but still maintains a seat-belt usage rate of 95.2%.

There are several counties with lower seat-belt usage rates, which tend to be more rural: Cheyenne (74.4%), Delta (80.7), Gunnison (82.9%), Moffat (71.4%), Montrose (82.9%), and Otero (82.1%). There are three outliers in this “lower seat-belt usage category.” Three counties have a larger population, but still have lower seat-belt usage rates. Weld county has a population of around 314,305 and a seat-belt usage rate of 81.3%, Pueblo population of 167,529 with an 80.2% rate, and Mesa with a population of 153,207 and a rate of 81.7%. Weld county has a larger population but appears to be more rural. The size of the county is quite big.

Of the 31 counties included in the study, 14 counties had a usage rate at or above the state-wide average rate. Only two counties fell below the 80% usage rate, those being Moffat county (71.4%) and Cheyenne county (74.4%). The Cheyenne rate may be inaccurate due to the higher standard error rate of 5.2. A standard error of 5.0 or above may be caused by a small sample size which may inflate the usage rate.

**Table 5.0: Statewide Seat-belt Usage by County**

	<b># of Sites</b>	<b>Estimate %</b>	<b>Std Error</b>	<b>CV %</b>	<b>Lower 95% Limit</b>	<b>Upper 95% Limit</b>
Adams	44	89.2	1.3	1.47	86.6	91.8
Alamosa	11	86.2	0.9	1.07	84.4	88
Arapahoe	44	92.4	1.1	1.24	90.2	94.7
Boulder	44	89.5	1.2	1.35	87.1	91.8
Chaffee	11	85.9	1.9	2.17	82.3	89.6
Cheyenne	11	74.4	5.2	6.93	64.3	84.5
Clear Creek	44	84.4	2.1	2.53	80.2	88.6
Delta	11	80.7	1.5	1.8	77.9	83.6
Denver	44	91.1	1.4	1.49	88.5	93.8
Douglas	44	90.2	0.9	1.01	88.4	92
Eagle	11	89.6	2.4	2.65	85	94.3
El Paso	44	89.6	1.6	1.75	86.5	92.7

Fremont	11	95.2	0.8	0.87	93.5	96.8
Garfield	11	88.4	3	3.37	82.5	94.2
Gunnison	11	82.9	2.4	2.85	78.2	87.5
Jefferson	44	89.4	1	1.08	87.5	91.3
Kit Carson	11	88.3	4.5	5.09	79.5	97.1
La Plata	11	83.2	1.6	1.87	80.2	86.3
Larimer	44	86.4	1.2	1.34	84.1	88.7
Las Animas	11	85.9	2.3	2.67	81.5	90.4
Lincoln	11	88.4	3.6	4.11	81.3	95.6
Mesa	44	81.7	1	1.24	79.7	83.6
Moffat	11	71.4	2.9	4.09	65.7	77.2
Montezuma	11	84.3	1.6	1.92	81.2	87.5
Montrose	11	82.9	2.1	2.47	78.9	86.9
Morgan	11	89.8	3.1	3.45	83.7	95.9
Otero	11	82.1	1.8	2.16	78.6	85.5
Park	37	90.8	0.9	1.02	89	92.7
Pueblo	44	80.2	1.8	2.23	76.7	83.7
Summit	11	89.9	1.4	1.57	87.1	92.6
Weld	44	81.3	2.4	2.91	76.6	85.9

### **Non-Observable Rate**

The Non-Observable rate of 3.2% across the five vehicle types compares nicely with previous studies. The overall rate for non-observables stood at 3.33% in 2018. This current rate is within the 10% limit established by NHTSA. There are a number of reasons for a failure to identify if the passengers are wearing a seat-belt or not, such as tinted windows, sun reflection, color of clothing/seat-belts are all valid reasons.

<b>Vehicle Type</b>	<b>2019</b>
Car	3.1%
Van	1.9%
SUV	2.5%
Truck	5.0%
Commercial	3.6%
Overall	3.2%

# CONCLUSIONS

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In this 2019 State of Colorado Seat-Belt study, 770 sites were observed during a two-week period between June 2<sup>nd</sup> and June 15<sup>th</sup>. In that time frame, 148,095 vehicles were examined for seat-belt usage. The average rate of seat-belt usage across the State of Colorado for this time period stands at 88.3%. The rate over the past eight years (2012-2019) has ranged from 80.7% in 2012 to the current rate of 88.3%. This is gradual increase of 9% overall across the five vehicle categories.

Looking at the specific vehicle categories, all five categories improved from the 2018 study. Trucks had the largest percentage improvement from 2018 by increasing from 80.1% to 82.6%, which equates to a 3.1% increase. Cars and Vans had similar percentage increases at 2.7% and 2.4%, respectively. Finally, SUVs improved by 1.32% and Commercial vehicles improved by 1.5%.

Prior to this Statewide Seat-belt study taking place, a pre-mobilization study was completed from May 5<sup>th</sup> to May 11<sup>th</sup>. After the pre-mobilization, the “Click-it or Ticket” Campaign ran to reinforce the importance of seat-belt use. Consequently, we have data for two points in time to evaluate. If there is an improvement in the seat-belt use in this State-wide study, a reasonable conclusion can be made that the “Click-it or Ticket” Campaign had an impact on driver’s behaviors. Across the five vehicle categories, four categories demonstrated improvement from pre-mobilization to the Statewide survey. Cars improved from 86.4% to 88.3%; Van improved from 88.3% to 90.1%; SUVs improved from 91.5% to 92.0%; Trucks improved from 79.4% to 82.6%. One category dropped from pre-mobilization to the Statewide study; Commercial Vehicles dropped from 77.1% to 75.8%. While this one vehicle category dropped, it does appear that the campaign does make a difference since the other categories improved.

The usage rate for pickup trucks stood at 82.6%, which is the second lowest among the five categories. Pickup trucks are ahead of Commercial vehicles which stands at 75.8%. This lower rate for pickup trucks may be attributed to the increased volume of pickups in rural communities. In some rural communities, drivers are in and out of their vehicles quite often. While it is safer to always wear their seat belts, these rural drivers may neglect to wear them for convenience purposes.

While the commercial vehicles seat-belt usage rate continues to lag behind the other five categories of vehicles, a positive note is that this category has the highest improvement since 2012 at 16.4%. Admittedly, the categories with higher rates face a ceiling effect which decrease their potential for improvement, the improvement in commercial vehicles is encouraging.

Both speed and road class appear to play a role in the use the seat-belts. At lower speeds, (i.e., 30 miles an hour and below) and on local roads, compliance rates for seat-belt usage are at their lowest at 86% and 87.9% respectively. On the other hand, when vehicles are driven faster (i.e., at 50 mph or above) and when the roadway is a Primary road, vehicle occupants tend to use their



seat belts more often: 91.2% and 92.3%, respectively. This may be an opportunity to reinforce the importance of wearing a seat belt at all times, in future advertising campaigns.

Looking at seat-belt usage across various counties shows a wide range of compliance. Fremont county demonstrated a rate of 95.2% for the highest county across the state, while Moffat county stands at 71.4%. This difference may provide an opportunity to target specific areas of the state with reminders campaigns.

As stated, the overall seat-belt usage rate for the State of Colorado stands at 88.3% across the five vehicle classes. There will be challenges to maintain and / or increase a high seat-belt usage rate in a secondary law state. Educational efforts will undoubtedly be necessary to encourage drivers and passengers to buckle up. However, educational efforts will likely save many lives in the state.

## APPENDIX 1

### Colorado Average Motor Vehicle Crash-Related Fatalities by County 2010-2014

FARS (2010-2014) State=Colorado				
State	County	Average fatality counts for 5 years	Fatality percentage within the state	Cumulative fatality percentage
Colorado	EL PASO	48.6	10	10
Colorado	WELD	41.2	8.5	18.5
Colorado	DENVER	38.2	7.9	26.4
Colorado	JEFFERSON	36.8	7.6	34
Colorado	ADAMS	30	6.2	40.2
Colorado	ARAPAHOE	25.2	5.2	45.4
Colorado	LARIMER	21	4.3	49.7
Colorado	PUEBLO	20.6	4.2	54
Colorado	BOULDER	18.2	3.8	57.7
Colorado	MESA	15.6	3.2	60.9
Colorado	DOUGLAS	13.8	2.8	63.8
Colorado	LA PLATA	10.2	2.1	65.9
Colorado	GARFIELD	8.4	1.7	67.6
Colorado	FREMONT	7.2	1.5	69.1
Colorado	DELTA	6.4	1.3	70.4
Colorado	MORGAN	6.2	1.3	71.7
Colorado	EAGLE	6	1.2	72.9
Colorado	MONTEZUMA	5.8	1.2	74.1
Colorado	LAS ANIMAS	5.2	1.1	75.2
Colorado	LINCOLN	5	1	76.3
Colorado	KIT CARSON	4.8	1	77.2
Colorado	PARK	4.6	0.9	78.2
Colorado	OTERO	4.2	0.9	79.1
Colorado	CHEYENNE	4	0.8	79.9
Colorado	SUMMIT	4	0.8	80.7
Colorado	ALAMOSA	3.8	0.8	81.5
Colorado	MONTROSE	3.8	0.8	82.3
Colorado	MOFFAT	3.8	0.8	83
Colorado	CHAFFEE	3.6	0.7	83.8
Colorado	GUNNISON	3.6	0.7	84.5
Colorado	CLEAR CREEK	3.5	0.7	85.3
Colorado	ELBERT	3.4	0.7	86
Colorado	WASHINGTON	3.4	0.7	86.7
Colorado	LOGAN	3.2	0.7	87.3
Colorado	BACA	3	0.6	87.9
Colorado	ROUTT	3	0.6	88.6
Colorado	HUERFANO	2.8	0.6	89.1
Colorado	PROWERS	2.8	0.6	89.7
Colorado	YUMA	2.8	0.6	90.3
Colorado	COSTILLA	2.5	0.5	90.8
Colorado	DOLORES	2.5	0.5	91.3
Colorado	SAGUACHE	2.5	0.5	91.8
Colorado	SAN MIGUEL	2.5	0.5	92.4
Colorado	BLOOMFIELD	2.4	0.5	92.8
Colorado	RIO GRANDE	2.4	0.5	93.3
Colorado	CONEJOS	2.3	0.5	93.8
Colorado	ARCHULETA	2.2	0.5	94.3
Colorado	GRAND	2.2	0.5	94.7
Colorado	TELLER	2.2	0.5	95.2
Colorado	LAKE	2	0.4	95.6

Colorado	PHILLIPS	2	0.4	96
Colorado	PITKIN	2	0.4	96.4
Colorado	RIO BLANCO	2	0.4	96.8
Colorado	SAN JUAN	2	0.4	97.2
Colorado	SEDGWICK	2	0.4	97.6
Colorado	CUSTER	1.8	0.4	98
Colorado	BENT	1.7	0.3	98.3
Colorado	KIOWA	1.5	0.3	98.7
Colorado	OURAY	1.5	0.3	99
Colorado	CROWLEY	1	0.2	99.2
Colorado	GILPIN	1	0.2	99.4
Colorado	HINSDALE	1	0.2	99.6
Colorado	JACKSON	1	0.2	99.8
Colorado	MINERAL	1	0.2	100

## APPENDIX 2

### Codes for Road Segment File

S1100	Primary Road	Primary roads are generally divided, limited-access highways within the interstate highway system or under state management, and are distinguished by the presence of interchanges. These highways are accessible by ramps and may include some toll highways.
S1200	Secondary Road	Secondary roads are main arteries, usually in the U.S. Highway, State Highway or County Highway system. These roads have one or more lanes of traffic in each direction, may or may not be divided, and usually have at-grade intersections with many other roads and driveways. They often have both a local name and a route number.
S1400	Local Neighborhood Road, Rural Road, City Street	These are generally paved non-arterial streets, roads, or byways that usually have a single lane of traffic in each direction. Roads in this feature class may be privately or publicly maintained. Scenic park roads would be included in this feature class, as would (depending on the region of the country) some unpaved roads.

**Appendix 3 Information: Number of Segments Selected (n) by County and MTFCC**

County	MTFCC Code			Total
	Primary: S1100	Secondary: S1200	Local: S1400	
Adams	10	17	17	44
Alamosa	0	11	0	11
Arapahoe	5	16	23	44
Boulder	0	26	18	44
Chaffee	0	11	0	11
Cheyenne	0	11	0	11
Clear Creek	17	19	8	44
Delta	0	11	0	11
Denver	9	18	17	44
Douglas	6	15	23	44
Eagle	6	5	0	11
El Paso	5	15	24	44
Fremont	0	11	0	11
Garfield	4	7	0	11
Gunnison	0	11	0	11
Jefferson	3	23	18	44
Kit Carson	3	8	0	11
La Plata	0	11	0	11
Larimer	1	24	19	44
Las Animas	3	8	0	11
Lincoln	3	8	0	11
Mesa	9	22	13	44
Moffat	0	11	0	11

Montezuma	0	11	0	11
Montrose	0	11	0	11
Morgan	3	8	0	11
Otero	0	11	0	11
Park	0	23	21	44
Pueblo	7	21	16	44
Summit	3	8	0	11
Weld	4	25	15	44
Adams	10	17	17	44

**Appendix 4: Weights for the Colorado State Seat-belt Usage Observational Survey**

<b>County</b>	<b>MTFCC</b>	<b>Sampling Weight</b>	<b>Selection Probability</b>
Adams	S1100/S1200	77	0.0131
Adams	S1400	1377	0.0007
Alamosa	S1100/S1200	25	0.0408
Arapahoe	S1100/S1200	56	0.0178
Arapahoe	S1400	1012	0.0010
Boulder	S1100/S1200	60	0.0166
Boulder	S1400	1082	0.0009
Chaffee	S1100/S1200	40	0.0250
Cheyenne	S1100/S1200	21	0.0487
Clear Creek	S1100/S1200	14	0.0726
Clear Creek	S1400	248	0.0040
Delta	S1100/S1200	56	0.0177
Denver	S1100/S1200	63	0.0159
Denver	S1400	1129	0.0009
Douglas	S1100/S1200	38	0.0263
Douglas	S1400	684	0.0015
Eagle	S1100/S1200	78	0.0128
El Paso	S1100/S1200	93	0.0107
El Paso	S1400	1678	0.0006
Fremont	S1100/S1200	62	0.0160
Garfield	S1100/S1200	99	0.0101
Gunnison	S1100/S1200	54	0.0187
Jefferson	S1100/S1200	82	0.0123
Jefferson	S1400	1469	0.0007
Kit Carson	S1100/S1200	33	0.0302
La Plata	S1100/S1200	77	0.0129
Larimer	S1100/S1200	74	0.0134

Larimer	S1400	1339	0.0007
Las Animas	S1100/S1200	65	0.0153
Lincoln	S1100/S1200	41	0.0246
Mesa	S1100/S1200	49	0.0206
Mesa	S1400	876	0.0011
Moffatt	S1100/S1200	73	0.0137
Montezuma	S1100/S1200	88	0.0114
Montrose	S1100/S1200	72	0.0139
Morgan	S1100/S1200	59	0.0170
Otero	S1100/S1200	98	0.0102
Park	S1100/S1200	24	0.0416
Park	S1400	432	0.0023
Pueblo	S1100/S1200	55	0.0182
Pueblo	S1400	988	0.0010
Summit	S1100/S1200	47	0.0215
Weld	S1100/S1200	71	0.0142
Weld	S1400	1272	0.0008



**Appendix 5: Weights for the Colorado State Seat-belt Usage Observational Survey by Survey Site  
 (NOTE: There are 5 Alternate Sites used for Survey. Site IDs greater than 770 reference those Alternate Sites from Reserve Pool)**

Site	County	MTFCC	SamplingWeight	SelectionProb
ADAMS				
1	Adams	Primary	76.50641	0.0130708
2	Adams	Primary	76.50641	0.0130708
3	Adams	Primary	76.50641	0.0130708
4	Adams	Primary	76.50641	0.0130708
5	Adams	Primary	76.50641	0.0130708
6	Adams	Primary	76.50641	0.0130708
7	Adams	Primary	76.50641	0.0130708
8	Adams	Primary	76.50641	0.0130708
9	Adams	Primary	76.50641	0.0130708
10	Adams	Primary	76.50641	0.0130708
11	Adams	Secondary	76.50641	0.0130708
12	Adams	Secondary	76.50641	0.0130708
13	Adams	Secondary	76.50641	0.0130708
14	Adams	Secondary	76.50641	0.0130708
15	Adams	Secondary	76.50641	0.0130708
16	Adams	Secondary	76.50641	0.0130708
17	Adams	Secondary	76.50641	0.0130708
18	Adams	Secondary	76.50641	0.0130708
19	Adams	Secondary	76.50641	0.0130708
20	Adams	Secondary	76.50641	0.0130708
21	Adams	Secondary	76.50641	0.0130708
22	Adams	Secondary	76.50641	0.0130708
23	Adams	Secondary	76.50641	0.0130708
24	Adams	Secondary	76.50641	0.0130708

25	Adams	Secondary	76.50641	0.0130708
26	Adams	Secondary	76.50641	0.0130708
27	Adams	Secondary	76.50641	0.0130708
28	Adams	Local	1377.11538	0.00072616
29	Adams	Local	1377.11538	0.00072616
30	Adams	Local	1377.11538	0.00072616
31	Adams	Local	1377.11538	0.00072616
32	Adams	Local	1377.11538	0.00072616
33	Adams	Local	1377.11538	0.00072616
34	Adams	Local	1377.11538	0.00072616
35	Adams	Local	1377.11538	0.00072616
36	Adams	Local	1377.11538	0.00072616
37	Adams	Local	1377.11538	0.00072616
38	Adams	Local	1377.11538	0.00072616
39	Adams	Local	1377.11538	0.00072616
40	Adams	Local	1377.11538	0.00072616
41	Adams	Local	1377.11538	0.00072616
42	Adams	Local	1377.11538	0.00072616
43	Adams	Local	1377.11538	0.00072616
44	Adams	Local	1377.11538	0.00072616
ALAMOSA				
45	Alamosa	Secondary	24.53846	0.04075235
46	Alamosa	Secondary	24.53846	0.04075235
47	Alamosa	Secondary	24.53846	0.04075235
48	Alamosa	Secondary	24.53846	0.04075235
49	Alamosa	Secondary	24.53846	0.04075235
50	Alamosa	Secondary	24.53846	0.04075235
51	Alamosa	Secondary	24.53846	0.04075235
52	Alamosa	Secondary	24.53846	0.04075235

53	Alamosa	Secondary	24.53846	0.04075235
54	Alamosa	Secondary	24.53846	0.04075235
55	Alamosa	Secondary	24.53846	0.04075235
ARAPAHOE				
56	Arapahoe	Primary	56.24679	0.01777879
57	Arapahoe	Primary	56.24679	0.01777879
58	Arapahoe	Primary	56.24679	0.01777879
59	Arapahoe	Primary	56.24679	0.01777879
60	Arapahoe	Primary	56.24679	0.01777879
61	Arapahoe	Secondary	56.24679	0.01777879
62	Arapahoe	Secondary	56.24679	0.01777879
63	Arapahoe	Secondary	56.24679	0.01777879
64	Arapahoe	Secondary	56.24679	0.01777879
65	Arapahoe	Secondary	56.24679	0.01777879
66	Arapahoe	Secondary	56.24679	0.01777879
67	Arapahoe	Secondary	56.24679	0.01777879
68	Arapahoe	Secondary	56.24679	0.01777879
69	Arapahoe	Secondary	56.24679	0.01777879
70	Arapahoe	Secondary	56.24679	0.01777879
71	Arapahoe	Secondary	56.24679	0.01777879
72	Arapahoe	Secondary	56.24679	0.01777879
73	Arapahoe	Secondary	56.24679	0.01777879
74	Arapahoe	Secondary	56.24679	0.01777879
75	Arapahoe	Secondary	56.24679	0.01777879
76	Arapahoe	Secondary	56.24679	0.01777879
77	Arapahoe	Local	1012.44231	0.00098771
78	Arapahoe	Local	1012.44231	0.00098771
79	Arapahoe	Local	1012.44231	0.00098771
80	Arapahoe	Local	1012.44231	0.00098771

81	Arapahoe	Local	1012.44231	0.00098771
82	Arapahoe	Local	1012.44231	0.00098771
83	Arapahoe	Local	1012.44231	0.00098771
84	Arapahoe	Local	1012.44231	0.00098771
85	Arapahoe	Local	1012.44231	0.00098771
86	Arapahoe	Local	1012.44231	0.00098771
87	Arapahoe	Local	1012.44231	0.00098771
88	Arapahoe	Local	1012.44231	0.00098771
89	Arapahoe	Local	1012.44231	0.00098771
90	Arapahoe	Local	1012.44231	0.00098771
91	Arapahoe	Local	1012.44231	0.00098771
92	Arapahoe	Local	1012.44231	0.00098771
93	Arapahoe	Local	1012.44231	0.00098771
94	Arapahoe	Local	1012.44231	0.00098771
95	Arapahoe	Local	1012.44231	0.00098771
96	Arapahoe	Local	1012.44231	0.00098771
97	Arapahoe	Local	1012.44231	0.00098771
98	Arapahoe	Local	1012.44231	0.00098771
99	Arapahoe	Local	1012.44231	0.00098771
BOULDER				
100	Boulder	Secondary	60.10897	0.01663645
101	Boulder	Secondary	60.10897	0.01663645
102	Boulder	Secondary	60.10897	0.01663645
103	Boulder	Secondary	60.10897	0.01663645
104	Boulder	Secondary	60.10897	0.01663645
105	Boulder	Secondary	60.10897	0.01663645
106	Boulder	Secondary	60.10897	0.01663645
107	Boulder	Secondary	60.10897	0.01663645
108	Boulder	Secondary	60.10897	0.01663645

109	Boulder	Secondary	60.10897	0.01663645
110	Boulder	Secondary	60.10897	0.01663645
111	Boulder	Secondary	60.10897	0.01663645
112	Boulder	Secondary	60.10897	0.01663645
113	Boulder	Secondary	60.10897	0.01663645
114	Boulder	Secondary	60.10897	0.01663645
115	Boulder	Secondary	60.10897	0.01663645
116	Boulder	Secondary	60.10897	0.01663645
117	Boulder	Secondary	60.10897	0.01663645
118	Boulder	Secondary	60.10897	0.01663645
119	Boulder	Secondary	60.10897	0.01663645
120	Boulder	Secondary	60.10897	0.01663645
121	Boulder	Secondary	60.10897	0.01663645
122	Boulder	Secondary	60.10897	0.01663645
123	Boulder	Secondary	60.10897	0.01663645
124	Boulder	Secondary	60.10897	0.01663645
125	Boulder	Secondary	60.10897	0.01663645
126	Boulder	Local	1081.96154	0.00092425
127	Boulder	Local	1081.96154	0.00092425
128	Boulder	Local	1081.96154	0.00092425
129	Boulder	Local	1081.96154	0.00092425
130	Boulder	Local	1081.96154	0.00092425
131	Boulder	Local	1081.96154	0.00092425
132	Boulder	Local	1081.96154	0.00092425
133	Boulder	Local	1081.96154	0.00092425
134	Boulder	Local	1081.96154	0.00092425
135	Boulder	Local	1081.96154	0.00092425
136	Boulder	Local	1081.96154	0.00092425
137	Boulder	Local	1081.96154	0.00092425

138	Boulder	Local	1081.96154	0.00092425
139	Boulder	Local	1081.96154	0.00092425
140	Boulder	Local	1081.96154	0.00092425
141	Boulder	Local	1081.96154	0.00092425
142	Boulder	Local	1081.96154	0.00092425
143	Boulder	Local	1081.96154	0.00092425
CHAFFEE				
144	Chaffee	Secondary	40	0.025
145	Chaffee	Secondary	40	0.025
146	Chaffee	Secondary	40	0.025
147	Chaffee	Secondary	40	0.025
148	Chaffee	Secondary	40	0.025
149	Chaffee	Secondary	40	0.025
150	Chaffee	Secondary	40	0.025
151	Chaffee	Secondary	40	0.025
152	Chaffee	Secondary	40	0.025
153	Chaffee	Secondary	40	0.025
154	Chaffee	Secondary	40	0.025
CHEYENNE				
155	Cheyenne	Secondary	20.53846	0.04868914
156	Cheyenne	Secondary	20.53846	0.04868914
157	Cheyenne	Secondary	20.53846	0.04868914
158	Cheyenne	Secondary	20.53846	0.04868914
159	Cheyenne	Secondary	20.53846	0.04868914
160	Cheyenne	Secondary	20.53846	0.04868914
161	Cheyenne	Secondary	20.53846	0.04868914
162	Cheyenne	Secondary	20.53846	0.04868914
163	Cheyenne	Secondary	20.53846	0.04868914
164	Cheyenne	Secondary	20.53846	0.04868914

165	Cheyenne	Secondary	20.53846	0.04868914
CLEAR CREEK				
166	Clear Creek	Primary	13.77778	0.07258065
167	Clear Creek	Primary	13.77778	0.07258065
168	Clear Creek	Primary	13.77778	0.07258065
169	Clear Creek	Primary	13.77778	0.07258065
170	Clear Creek	Primary	13.77778	0.07258065
171	Clear Creek	Primary	13.77778	0.07258065
172	Clear Creek	Primary	13.77778	0.07258065
173	Clear Creek	Primary	13.77778	0.07258065
174	Clear Creek	Primary	13.77778	0.07258065
175	Clear Creek	Primary	13.77778	0.07258065
176	Clear Creek	Primary	13.77778	0.07258065
177	Clear Creek	Primary	13.77778	0.07258065
178	Clear Creek	Primary	13.77778	0.07258065
179	Clear Creek	Primary	13.77778	0.07258065
180	Clear Creek	Primary	13.77778	0.07258065
181	Clear Creek	Primary	13.77778	0.07258065
182	Clear Creek	Primary	13.77778	0.07258065
183	Clear Creek	Secondary	13.77778	0.07258065
184	Clear Creek	Secondary	13.77778	0.07258065
185	Clear Creek	Secondary	13.77778	0.07258065
186	Clear Creek	Secondary	13.77778	0.07258065
187	Clear Creek	Secondary	13.77778	0.07258065
188	Clear Creek	Secondary	13.77778	0.07258065
189	Clear Creek	Secondary	13.77778	0.07258065
190	Clear Creek	Secondary	13.77778	0.07258065
191	Clear Creek	Secondary	13.77778	0.07258065
192	Clear Creek	Secondary	13.77778	0.07258065

193	Clear Creek	Secondary	13.77778	0.07258065
194	Clear Creek	Secondary	13.77778	0.07258065
195	Clear Creek	Secondary	13.77778	0.07258065
196	Clear Creek	Secondary	13.77778	0.07258065
197	Clear Creek	Secondary	13.77778	0.07258065
198	Clear Creek	Secondary	13.77778	0.07258065
199	Clear Creek	Secondary	13.77778	0.07258065
200	Clear Creek	Secondary	13.77778	0.07258065
201	Clear Creek	Secondary	13.77778	0.07258065
204	Clear Creek	Local	248	0.00403226
205	Clear Creek	Local	248	0.00403226
206	Clear Creek	Local	248	0.00403226
208	Clear Creek	Local	248	0.00403226
801	Clear Creek	Primary	13.77778	0.07258065
804	Clear Creek	Primary	13.77778	0.07258065
805	Clear Creek	Secondary	13.77778	0.07258065
808	Clear Creek	Local	248	0.00403226
DELTA				
210	Delta	Secondary	56.46154	0.01771117
211	Delta	Secondary	56.46154	0.01771117
212	Delta	Secondary	56.46154	0.01771117
213	Delta	Secondary	56.46154	0.01771117
214	Delta	Secondary	56.46154	0.01771117
215	Delta	Secondary	56.46154	0.01771117
216	Delta	Secondary	56.46154	0.01771117
217	Delta	Secondary	56.46154	0.01771117
218	Delta	Secondary	56.46154	0.01771117
219	Delta	Secondary	56.46154	0.01771117
220	Delta	Secondary	56.46154	0.01771117



DENVER				
221	Denver	Primary	62.72436	0.01594277
222	Denver	Primary	62.72436	0.01594277
223	Denver	Primary	62.72436	0.01594277
224	Denver	Primary	62.72436	0.01594277
225	Denver	Primary	62.72436	0.01594277
226	Denver	Primary	62.72436	0.01594277
227	Denver	Primary	62.72436	0.01594277
228	Denver	Primary	62.72436	0.01594277
229	Denver	Secondary	62.72436	0.01594277
230	Denver	Secondary	62.72436	0.01594277
231	Denver	Secondary	62.72436	0.01594277
232	Denver	Secondary	62.72436	0.01594277
233	Denver	Secondary	62.72436	0.01594277
234	Denver	Secondary	62.72436	0.01594277
235	Denver	Secondary	62.72436	0.01594277
236	Denver	Secondary	62.72436	0.01594277
237	Denver	Secondary	62.72436	0.01594277
238	Denver	Secondary	62.72436	0.01594277
239	Denver	Secondary	62.72436	0.01594277
240	Denver	Secondary	62.72436	0.01594277
241	Denver	Secondary	62.72436	0.01594277
242	Denver	Secondary	62.72436	0.01594277
243	Denver	Secondary	62.72436	0.01594277
244	Denver	Secondary	62.72436	0.01594277
245	Denver	Secondary	62.72436	0.01594277
246	Denver	Secondary	62.72436	0.01594277
247	Denver	Local	1129.03846	0.00088571
248	Denver	Local	1129.03846	0.00088571

249	Denver	Local	1129.03846	0.00088571
250	Denver	Local	1129.03846	0.00088571
251	Denver	Local	1129.03846	0.00088571
252	Denver	Local	1129.03846	0.00088571
253	Denver	Local	1129.03846	0.00088571
254	Denver	Local	1129.03846	0.00088571
255	Denver	Local	1129.03846	0.00088571
256	Denver	Local	1129.03846	0.00088571
257	Denver	Local	1129.03846	0.00088571
258	Denver	Local	1129.03846	0.00088571
259	Denver	Local	1129.03846	0.00088571
260	Denver	Local	1129.03846	0.00088571
261	Denver	Local	1129.03846	0.00088571
262	Denver	Local	1129.03846	0.00088571
263	Denver	Local	1129.03846	0.00088571
264	Denver	Local	1129.03846	0.00088571
DOUGLAS				
265	Douglas	Primary	37.97543	0.02633282
266	Douglas	Primary	37.97543	0.02633282
267	Douglas	Primary	37.97543	0.02633282
268	Douglas	Primary	37.97543	0.02633282
269	Douglas	Primary	37.97543	0.02633282
270	Douglas	Primary	37.97543	0.02633282
271	Douglas	Secondary	37.97543	0.02633282
272	Douglas	Secondary	37.97543	0.02633282
273	Douglas	Secondary	37.97543	0.02633282
274	Douglas	Secondary	37.97543	0.02633282
275	Douglas	Secondary	37.97543	0.02633282
276	Douglas	Secondary	37.97543	0.02633282

277	Douglas	Secondary	37.97543	0.02633282
278	Douglas	Secondary	37.97543	0.02633282
279	Douglas	Secondary	37.97543	0.02633282
280	Douglas	Secondary	37.97543	0.02633282
281	Douglas	Secondary	37.97543	0.02633282
282	Douglas	Secondary	37.97543	0.02633282
283	Douglas	Secondary	37.97543	0.02633282
284	Douglas	Secondary	37.97543	0.02633282
285	Douglas	Secondary	37.97543	0.02633282
286	Douglas	Local	683.55769	0.00146293
287	Douglas	Local	683.55769	0.00146293
288	Douglas	Local	683.55769	0.00146293
289	Douglas	Local	683.55769	0.00146293
290	Douglas	Local	683.55769	0.00146293
291	Douglas	Local	683.55769	0.00146293
292	Douglas	Local	683.55769	0.00146293
293	Douglas	Local	683.55769	0.00146293
294	Douglas	Local	683.55769	0.00146293
295	Douglas	Local	683.55769	0.00146293
296	Douglas	Local	683.55769	0.00146293
297	Douglas	Local	683.55769	0.00146293
298	Douglas	Local	683.55769	0.00146293
299	Douglas	Local	683.55769	0.00146293
300	Douglas	Local	683.55769	0.00146293
301	Douglas	Local	683.55769	0.00146293
302	Douglas	Local	683.55769	0.00146293
303	Douglas	Local	683.55769	0.00146293
304	Douglas	Local	683.55769	0.00146293
305	Douglas	Local	683.55769	0.00146293

306	Douglas	Local	683.55769	0.00146293
307	Douglas	Local	683.55769	0.00146293
308	Douglas	Local	683.55769	0.00146293
EAGLE				
309	Eagle	Primary	77.84615	0.01284585
310	Eagle	Primary	77.84615	0.01284585
311	Eagle	Primary	77.84615	0.01284585
312	Eagle	Primary	77.84615	0.01284585
313	Eagle	Primary	77.84615	0.01284585
314	Eagle	Primary	77.84615	0.01284585
315	Eagle	Secondary	77.84615	0.01284585
316	Eagle	Secondary	77.84615	0.01284585
317	Eagle	Secondary	77.84615	0.01284585
318	Eagle	Secondary	77.84615	0.01284585
319	Eagle	Secondary	77.84615	0.01284585
EL PASO				
320	El Paso	Primary	93.2094	0.01072853
321	El Paso	Primary	93.2094	0.01072853
322	El Paso	Primary	93.2094	0.01072853
323	El Paso	Primary	93.2094	0.01072853
324	El Paso	Primary	93.2094	0.01072853
325	El Paso	Secondary	93.2094	0.01072853
326	El Paso	Secondary	93.2094	0.01072853
327	El Paso	Secondary	93.2094	0.01072853
328	El Paso	Secondary	93.2094	0.01072853
329	El Paso	Secondary	93.2094	0.01072853
330	El Paso	Secondary	93.2094	0.01072853
331	El Paso	Secondary	93.2094	0.01072853
332	El Paso	Secondary	93.2094	0.01072853

333	El Paso	Secondary	93.2094	0.01072853
334	El Paso	Secondary	93.2094	0.01072853
335	El Paso	Secondary	93.2094	0.01072853
336	El Paso	Secondary	93.2094	0.01072853
337	El Paso	Secondary	93.2094	0.01072853
338	El Paso	Secondary	93.2094	0.01072853
339	El Paso	Local	1677.76923	0.00059603
340	El Paso	Local	1677.76923	0.00059603
341	El Paso	Local	1677.76923	0.00059603
342	El Paso	Local	1677.76923	0.00059603
343	El Paso	Local	1677.76923	0.00059603
344	El Paso	Local	1677.76923	0.00059603
345	El Paso	Local	1677.76923	0.00059603
346	El Paso	Local	1677.76923	0.00059603
347	El Paso	Local	1677.76923	0.00059603
348	El Paso	Local	1677.76923	0.00059603
349	El Paso	Local	1677.76923	0.00059603
350	El Paso	Local	1677.76923	0.00059603
351	El Paso	Local	1677.76923	0.00059603
352	El Paso	Local	1677.76923	0.00059603
353	El Paso	Local	1677.76923	0.00059603
354	El Paso	Local	1677.76923	0.00059603
355	El Paso	Local	1677.76923	0.00059603
356	El Paso	Local	1677.76923	0.00059603
357	El Paso	Local	1677.76923	0.00059603
358	El Paso	Local	1677.76923	0.00059603
359	El Paso	Local	1677.76923	0.00059603
360	El Paso	Local	1677.76923	0.00059603
361	El Paso	Local	1677.76923	0.00059603

362	El Paso	Local	1677.76923	0.00059603
363	El Paso	Local	1677.76923	0.00059603
FREMONT				
364	Fremont	Secondary	62.30769	0.01604938
365	Fremont	Secondary	62.30769	0.01604938
366	Fremont	Secondary	62.30769	0.01604938
367	Fremont	Secondary	62.30769	0.01604938
368	Fremont	Secondary	62.30769	0.01604938
369	Fremont	Secondary	62.30769	0.01604938
370	Fremont	Secondary	62.30769	0.01604938
371	Fremont	Secondary	62.30769	0.01604938
372	Fremont	Secondary	62.30769	0.01604938
373	Fremont	Secondary	62.30769	0.01604938
374	Fremont	Secondary	62.30769	0.01604938
GARFIELD				
375	Garfield	Primary	99.15385	0.01008534
376	Garfield	Primary	99.15385	0.01008534
377	Garfield	Primary	99.15385	0.01008534
378	Garfield	Primary	99.15385	0.01008534
379	Garfield	Secondary	99.15385	0.01008534
380	Garfield	Secondary	99.15385	0.01008534
381	Garfield	Secondary	99.15385	0.01008534
382	Garfield	Secondary	99.15385	0.01008534
383	Garfield	Secondary	99.15385	0.01008534
384	Garfield	Secondary	99.15385	0.01008534
385	Garfield	Secondary	99.15385	0.01008534
GUNNISON				
386	Gunnison	Secondary	53.53846	0.01867816
387	Gunnison	Secondary	53.53846	0.01867816

388	Gunnison	Secondary	53.53846	0.01867816
389	Gunnison	Secondary	53.53846	0.01867816
390	Gunnison	Secondary	53.53846	0.01867816
391	Gunnison	Secondary	53.53846	0.01867816
392	Gunnison	Secondary	53.53846	0.01867816
393	Gunnison	Secondary	53.53846	0.01867816
394	Gunnison	Secondary	53.53846	0.01867816
395	Gunnison	Secondary	53.53846	0.01867816
396	Gunnison	Secondary	53.53846	0.01867816
JEFFERSON				
397	Jefferson	Primary	81.6015	0.01225468
398	Jefferson	Primary	81.6015	0.01225468
399	Jefferson	Primary	81.6015	0.01225468
400	Jefferson	Secondary	81.6015	0.01225468
401	Jefferson	Secondary	81.6015	0.01225468
402	Jefferson	Secondary	81.6015	0.01225468
403	Jefferson	Secondary	81.6015	0.01225468
404	Jefferson	Secondary	81.6015	0.01225468
405	Jefferson	Secondary	81.6015	0.01225468
406	Jefferson	Secondary	81.6015	0.01225468
407	Jefferson	Secondary	81.6015	0.01225468
408	Jefferson	Secondary	81.6015	0.01225468
409	Jefferson	Secondary	81.6015	0.01225468
410	Jefferson	Secondary	81.6015	0.01225468
411	Jefferson	Secondary	81.6015	0.01225468
412	Jefferson	Secondary	81.6015	0.01225468
413	Jefferson	Secondary	81.6015	0.01225468
414	Jefferson	Secondary	81.6015	0.01225468
415	Jefferson	Secondary	81.6015	0.01225468

416	Jefferson	Secondary	81.6015	0.01225468
417	Jefferson	Secondary	81.6015	0.01225468
418	Jefferson	Secondary	81.6015	0.01225468
419	Jefferson	Secondary	81.6015	0.01225468
420	Jefferson	Secondary	81.6015	0.01225468
421	Jefferson	Secondary	81.6015	0.01225468
422	Jefferson	Secondary	81.6015	0.01225468
423	Jefferson	Local	1468.82692	0.00068082
424	Jefferson	Local	1468.82692	0.00068082
425	Jefferson	Local	1468.82692	0.00068082
426	Jefferson	Local	1468.82692	0.00068082
427	Jefferson	Local	1468.82692	0.00068082
428	Jefferson	Local	1468.82692	0.00068082
429	Jefferson	Local	1468.82692	0.00068082
430	Jefferson	Local	1468.82692	0.00068082
431	Jefferson	Local	1468.82692	0.00068082
432	Jefferson	Local	1468.82692	0.00068082
433	Jefferson	Local	1468.82692	0.00068082
434	Jefferson	Local	1468.82692	0.00068082
435	Jefferson	Local	1468.82692	0.00068082
436	Jefferson	Local	1468.82692	0.00068082
437	Jefferson	Local	1468.82692	0.00068082
438	Jefferson	Local	1468.82692	0.00068082
439	Jefferson	Local	1468.82692	0.00068082
440	Jefferson	Local	1468.82692	0.00068082
KIT CARSON				
441	Kit Carson	Primary	33.15385	0.03016241
442	Kit Carson	Primary	33.15385	0.03016241
443	Kit Carson	Primary	33.15385	0.03016241



444	Kit Carson	Secondary	33.15385	0.03016241
445	Kit Carson	Secondary	33.15385	0.03016241
446	Kit Carson	Secondary	33.15385	0.03016241
447	Kit Carson	Secondary	33.15385	0.03016241
448	Kit Carson	Secondary	33.15385	0.03016241
449	Kit Carson	Secondary	33.15385	0.03016241
450	Kit Carson	Secondary	33.15385	0.03016241
451	Kit Carson	Secondary	33.15385	0.03016241
LA PLATA				
452	La Plata	Secondary	77.38462	0.01292247
453	La Plata	Secondary	77.38462	0.01292247
454	La Plata	Secondary	77.38462	0.01292247
455	La Plata	Secondary	77.38462	0.01292247
456	La Plata	Secondary	77.38462	0.01292247
457	La Plata	Secondary	77.38462	0.01292247
458	La Plata	Secondary	77.38462	0.01292247
459	La Plata	Secondary	77.38462	0.01292247
460	La Plata	Secondary	77.38462	0.01292247
461	La Plata	Secondary	77.38462	0.01292247
462	La Plata	Secondary	77.38462	0.01292247
LARIMER				
463	Larimer	Primary	74.40491	0.01343997
464	Larimer	Secondary	74.40491	0.01343997
465	Larimer	Secondary	74.40491	0.01343997
466	Larimer	Secondary	74.40491	0.01343997
467	Larimer	Secondary	74.40491	0.01343997
468	Larimer	Secondary	74.40491	0.01343997
469	Larimer	Secondary	74.40491	0.01343997
470	Larimer	Secondary	74.40491	0.01343997

471	Larimer	Secondary	74.40491	0.01343997
472	Larimer	Secondary	74.40491	0.01343997
473	Larimer	Secondary	74.40491	0.01343997
474	Larimer	Secondary	74.40491	0.01343997
475	Larimer	Secondary	74.40491	0.01343997
476	Larimer	Secondary	74.40491	0.01343997
477	Larimer	Secondary	74.40491	0.01343997
478	Larimer	Secondary	74.40491	0.01343997
479	Larimer	Secondary	74.40491	0.01343997
480	Larimer	Secondary	74.40491	0.01343997
481	Larimer	Secondary	74.40491	0.01343997
482	Larimer	Secondary	74.40491	0.01343997
483	Larimer	Secondary	74.40491	0.01343997
484	Larimer	Secondary	74.40491	0.01343997
485	Larimer	Secondary	74.40491	0.01343997
486	Larimer	Secondary	74.40491	0.01343997
487	Larimer	Secondary	74.40491	0.01343997
488	Larimer	Local	1339.28846	0.00074667
489	Larimer	Local	1339.28846	0.00074667
490	Larimer	Local	1339.28846	0.00074667
491	Larimer	Local	1339.28846	0.00074667
492	Larimer	Local	1339.28846	0.00074667
493	Larimer	Local	1339.28846	0.00074667
494	Larimer	Local	1339.28846	0.00074667
495	Larimer	Local	1339.28846	0.00074667
496	Larimer	Local	1339.28846	0.00074667
497	Larimer	Local	1339.28846	0.00074667
498	Larimer	Local	1339.28846	0.00074667
499	Larimer	Local	1339.28846	0.00074667

500	Larimer	Local	1339.28846	0.00074667
501	Larimer	Local	1339.28846	0.00074667
502	Larimer	Local	1339.28846	0.00074667
503	Larimer	Local	1339.28846	0.00074667
504	Larimer	Local	1339.28846	0.00074667
505	Larimer	Local	1339.28846	0.00074667
506	Larimer	Local	1339.28846	0.00074667
LAS ANIMAS				
507	Las Animas	Primary	65.38462	0.01529412
508	Las Animas	Primary	65.38462	0.01529412
509	Las Animas	Primary	65.38462	0.01529412
510	Las Animas	Secondary	65.38462	0.01529412
511	Las Animas	Secondary	65.38462	0.01529412
512	Las Animas	Secondary	65.38462	0.01529412
513	Las Animas	Secondary	65.38462	0.01529412
514	Las Animas	Secondary	65.38462	0.01529412
515	Las Animas	Secondary	65.38462	0.01529412
516	Las Animas	Secondary	65.38462	0.01529412
517	Las Animas	Secondary	65.38462	0.01529412
LINCOLN				
518	Lincoln	Primary	40.61538	0.02462121
519	Lincoln	Primary	40.61538	0.02462121
521	Lincoln	Secondary	40.61538	0.02462121
522	Lincoln	Secondary	40.61538	0.02462121
523	Lincoln	Secondary	40.61538	0.02462121
524	Lincoln	Secondary	40.61538	0.02462121
525	Lincoln	Secondary	40.61538	0.02462121
526	Lincoln	Secondary	40.61538	0.02462121
527	Lincoln	Secondary	40.61538	0.02462121

528	Lincoln	Secondary	40.61538	0.02462121
865	Lincoln	Primary	40.61538	0.02462121
MESA				
529	Mesa	Primary	48.64637	0.02055652
530	Mesa	Primary	48.64637	0.02055652
531	Mesa	Primary	48.64637	0.02055652
532	Mesa	Primary	48.64637	0.02055652
533	Mesa	Primary	48.64637	0.02055652
534	Mesa	Primary	48.64637	0.02055652
535	Mesa	Primary	48.64637	0.02055652
536	Mesa	Primary	48.64637	0.02055652
537	Mesa	Primary	48.64637	0.02055652
538	Mesa	Secondary	48.64637	0.02055652
539	Mesa	Secondary	48.64637	0.02055652
540	Mesa	Secondary	48.64637	0.02055652
541	Mesa	Secondary	48.64637	0.02055652
542	Mesa	Secondary	48.64637	0.02055652
543	Mesa	Secondary	48.64637	0.02055652
544	Mesa	Secondary	48.64637	0.02055652
545	Mesa	Secondary	48.64637	0.02055652
546	Mesa	Secondary	48.64637	0.02055652
547	Mesa	Secondary	48.64637	0.02055652
548	Mesa	Secondary	48.64637	0.02055652
549	Mesa	Secondary	48.64637	0.02055652
550	Mesa	Secondary	48.64637	0.02055652
551	Mesa	Secondary	48.64637	0.02055652
552	Mesa	Secondary	48.64637	0.02055652
553	Mesa	Secondary	48.64637	0.02055652
554	Mesa	Secondary	48.64637	0.02055652

555	Mesa	Secondary	48.64637	0.02055652
556	Mesa	Secondary	48.64637	0.02055652
557	Mesa	Secondary	48.64637	0.02055652
558	Mesa	Secondary	48.64637	0.02055652
559	Mesa	Secondary	48.64637	0.02055652
560	Mesa	Local	875.63462	0.00114203
561	Mesa	Local	875.63462	0.00114203
562	Mesa	Local	875.63462	0.00114203
563	Mesa	Local	875.63462	0.00114203
564	Mesa	Local	875.63462	0.00114203
565	Mesa	Local	875.63462	0.00114203
566	Mesa	Local	875.63462	0.00114203
567	Mesa	Local	875.63462	0.00114203
568	Mesa	Local	875.63462	0.00114203
569	Mesa	Local	875.63462	0.00114203
570	Mesa	Local	875.63462	0.00114203
571	Mesa	Local	875.63462	0.00114203
572	Mesa	Local	875.63462	0.00114203
MOFFAT				
573	Moffat	Secondary	72.76923	0.01374207
574	Moffat	Secondary	72.76923	0.01374207
575	Moffat	Secondary	72.76923	0.01374207
576	Moffat	Secondary	72.76923	0.01374207
577	Moffat	Secondary	72.76923	0.01374207
578	Moffat	Secondary	72.76923	0.01374207
579	Moffat	Secondary	72.76923	0.01374207
580	Moffat	Secondary	72.76923	0.01374207
581	Moffat	Secondary	72.76923	0.01374207
582	Moffat	Secondary	72.76923	0.01374207

583	Moffat	Secondary	72.76923	0.01374207
MONTEZUMA				
584	Montezuma	Secondary	87.76923	0.01139351
585	Montezuma	Secondary	87.76923	0.01139351
586	Montezuma	Secondary	87.76923	0.01139351
587	Montezuma	Secondary	87.76923	0.01139351
588	Montezuma	Secondary	87.76923	0.01139351
589	Montezuma	Secondary	87.76923	0.01139351
590	Montezuma	Secondary	87.76923	0.01139351
591	Montezuma	Secondary	87.76923	0.01139351
592	Montezuma	Secondary	87.76923	0.01139351
593	Montezuma	Secondary	87.76923	0.01139351
594	Montezuma	Secondary	87.76923	0.01139351
MONTROSE				
595	Montrose	Secondary	72.07692	0.01387407
596	Montrose	Secondary	72.07692	0.01387407
597	Montrose	Secondary	72.07692	0.01387407
598	Montrose	Secondary	72.07692	0.01387407
599	Montrose	Secondary	72.07692	0.01387407
600	Montrose	Secondary	72.07692	0.01387407
601	Montrose	Secondary	72.07692	0.01387407
602	Montrose	Secondary	72.07692	0.01387407
603	Montrose	Secondary	72.07692	0.01387407
604	Montrose	Secondary	72.07692	0.01387407
605	Montrose	Secondary	72.07692	0.01387407
MORGAN				
606	Morgan	Primary	58.92308	0.01697128
607	Morgan	Primary	58.92308	0.01697128
608	Morgan	Primary	58.92308	0.01697128

609	Morgan	Secondary	58.92308	0.01697128
610	Morgan	Secondary	58.92308	0.01697128
611	Morgan	Secondary	58.92308	0.01697128
612	Morgan	Secondary	58.92308	0.01697128
613	Morgan	Secondary	58.92308	0.01697128
614	Morgan	Secondary	58.92308	0.01697128
615	Morgan	Secondary	58.92308	0.01697128
616	Morgan	Secondary	58.92308	0.01697128
OTERO				
617	Otero	Secondary	97.76923	0.01022817
618	Otero	Secondary	97.76923	0.01022817
619	Otero	Secondary	97.76923	0.01022817
620	Otero	Secondary	97.76923	0.01022817
621	Otero	Secondary	97.76923	0.01022817
622	Otero	Secondary	97.76923	0.01022817
623	Otero	Secondary	97.76923	0.01022817
624	Otero	Secondary	97.76923	0.01022817
625	Otero	Secondary	97.76923	0.01022817
626	Otero	Secondary	97.76923	0.01022817
627	Otero	Secondary	97.76923	0.01022817
PARK				
628	Park	Secondary	24.01923	0.04163331
629	Park	Secondary	24.01923	0.04163331
630	Park	Secondary	24.01923	0.04163331
631	Park	Secondary	24.01923	0.04163331
632	Park	Secondary	24.01923	0.04163331
633	Park	Secondary	24.01923	0.04163331
634	Park	Secondary	24.01923	0.04163331
635	Park	Secondary	24.01923	0.04163331

636	Park	Secondary	24.01923	0.04163331
637	Park	Secondary	24.01923	0.04163331
638	Park	Secondary	24.01923	0.04163331
639	Park	Secondary	24.01923	0.04163331
640	Park	Secondary	24.01923	0.04163331
641	Park	Secondary	24.01923	0.04163331
642	Park	Secondary	24.01923	0.04163331
643	Park	Secondary	24.01923	0.04163331
644	Park	Secondary	24.01923	0.04163331
645	Park	Secondary	24.01923	0.04163331
646	Park	Secondary	24.01923	0.04163331
647	Park	Secondary	24.01923	0.04163331
648	Park	Secondary	24.01923	0.04163331
649	Park	Secondary	24.01923	0.04163331
650	Park	Secondary	24.01923	0.04163331
651	Park	Local	432.34615	0.00231296
652	Park	Local	432.34615	0.00231296
653	Park	Local	432.34615	0.00231296
654	Park	Local	432.34615	0.00231296
655	Park	Local	432.34615	0.00231296
656	Park	Local	432.34615	0.00231296
657	Park	Local	432.34615	0.00231296
658	Park	Local	432.34615	0.00231296
659	Park	Local	432.34615	0.00231296
660	Park	Local	432.34615	0.00231296
661	Park	Local	432.34615	0.00231296
662	Park	Local	432.34615	0.00231296
663	Park	Local	432.34615	0.00231296
664	Park	Local	432.34615	0.00231296



665	Park	Local	432.34615	0.00231296
666	Park	Local	432.34615	0.00231296
667	Park	Local	432.34615	0.00231296
668	Park	Local	432.34615	0.00231296
669	Park	Local	432.34615	0.00231296
670	Park	Local	432.34615	0.00231296
671	Park	Local	432.34615	0.00231296
PUEBLO				
672	Pueblo	Primary	54.86966	0.01822501
673	Pueblo	Primary	54.86966	0.01822501
674	Pueblo	Primary	54.86966	0.01822501
675	Pueblo	Primary	54.86966	0.01822501
676	Pueblo	Primary	54.86966	0.01822501
677	Pueblo	Primary	54.86966	0.01822501
678	Pueblo	Primary	54.86966	0.01822501
679	Pueblo	Secondary	54.86966	0.01822501
680	Pueblo	Secondary	54.86966	0.01822501
681	Pueblo	Secondary	54.86966	0.01822501
682	Pueblo	Secondary	54.86966	0.01822501
683	Pueblo	Secondary	54.86966	0.01822501
684	Pueblo	Secondary	54.86966	0.01822501
685	Pueblo	Secondary	54.86966	0.01822501
686	Pueblo	Secondary	54.86966	0.01822501
687	Pueblo	Secondary	54.86966	0.01822501
688	Pueblo	Secondary	54.86966	0.01822501
689	Pueblo	Secondary	54.86966	0.01822501
690	Pueblo	Secondary	54.86966	0.01822501
691	Pueblo	Secondary	54.86966	0.01822501
692	Pueblo	Secondary	54.86966	0.01822501

693	Pueblo	Secondary	54.86966	0.01822501
694	Pueblo	Secondary	54.86966	0.01822501
695	Pueblo	Secondary	54.86966	0.01822501
696	Pueblo	Secondary	54.86966	0.01822501
697	Pueblo	Secondary	54.86966	0.01822501
698	Pueblo	Secondary	54.86966	0.01822501
699	Pueblo	Secondary	54.86966	0.01822501
700	Pueblo	Local	987.65385	0.0010125
701	Pueblo	Local	987.65385	0.0010125
702	Pueblo	Local	987.65385	0.0010125
703	Pueblo	Local	987.65385	0.0010125
704	Pueblo	Local	987.65385	0.0010125
705	Pueblo	Local	987.65385	0.0010125
706	Pueblo	Local	987.65385	0.0010125
707	Pueblo	Local	987.65385	0.0010125
708	Pueblo	Local	987.65385	0.0010125
709	Pueblo	Local	987.65385	0.0010125
710	Pueblo	Local	987.65385	0.0010125
711	Pueblo	Local	987.65385	0.0010125
712	Pueblo	Local	987.65385	0.0010125
713	Pueblo	Local	987.65385	0.0010125
714	Pueblo	Local	987.65385	0.0010125
715	Pueblo	Local	987.65385	0.0010125
SUMMIT				
716	Summit	Primary	46.53846	0.0214876
717	Summit	Primary	46.53846	0.0214876
718	Summit	Primary	46.53846	0.0214876
719	Summit	Secondary	46.53846	0.0214876
720	Summit	Secondary	46.53846	0.0214876

721	Summit	Secondary	46.53846	0.0214876
722	Summit	Secondary	46.53846	0.0214876
723	Summit	Secondary	46.53846	0.0214876
724	Summit	Secondary	46.53846	0.0214876
725	Summit	Secondary	46.53846	0.0214876
726	Summit	Secondary	46.53846	0.0214876
WELD				
727	Weld	Primary	70.64744	0.0141548
728	Weld	Primary	70.64744	0.0141548
729	Weld	Primary	70.64744	0.0141548
730	Weld	Primary	70.64744	0.0141548
731	Weld	Secondary	70.64744	0.0141548
732	Weld	Secondary	70.64744	0.0141548
733	Weld	Secondary	70.64744	0.0141548
734	Weld	Secondary	70.64744	0.0141548
735	Weld	Secondary	70.64744	0.0141548
736	Weld	Secondary	70.64744	0.0141548
737	Weld	Secondary	70.64744	0.0141548
738	Weld	Secondary	70.64744	0.0141548
739	Weld	Secondary	70.64744	0.0141548
740	Weld	Secondary	70.64744	0.0141548
741	Weld	Secondary	70.64744	0.0141548
742	Weld	Secondary	70.64744	0.0141548
743	Weld	Secondary	70.64744	0.0141548
744	Weld	Secondary	70.64744	0.0141548
745	Weld	Secondary	70.64744	0.0141548
746	Weld	Secondary	70.64744	0.0141548
747	Weld	Secondary	70.64744	0.0141548
748	Weld	Secondary	70.64744	0.0141548

749	Weld	Secondary	70.64744	0.0141548
750	Weld	Secondary	70.64744	0.0141548
751	Weld	Secondary	70.64744	0.0141548
752	Weld	Secondary	70.64744	0.0141548
753	Weld	Secondary	70.64744	0.0141548
754	Weld	Secondary	70.64744	0.0141548
755	Weld	Secondary	70.64744	0.0141548
756	Weld	Local	1271.65385	0.00078638
757	Weld	Local	1271.65385	0.00078638
758	Weld	Local	1271.65385	0.00078638
759	Weld	Local	1271.65385	0.00078638
760	Weld	Local	1271.65385	0.00078638
761	Weld	Local	1271.65385	0.00078638
762	Weld	Local	1271.65385	0.00078638
763	Weld	Local	1271.65385	0.00078638
764	Weld	Local	1271.65385	0.00078638
765	Weld	Local	1271.65385	0.00078638
766	Weld	Local	1271.65385	0.00078638
767	Weld	Local	1271.65385	0.00078638
768	Weld	Local	1271.65385	0.00078638
769	Weld	Local	1271.65385	0.00078638
770	Weld	Local	1271.65385	0.00078638

## APPENDIX 6

### Training Syllabus

Welcome and distribution of equipment

Survey overview

Data collection techniques

- Definitions of belt/booster seat use, passenger vehicles

- Observation protocol

- Weekday/weekend/rush hour/non-rush hour

- Weather conditions

- Duration at each site

Scheduling and rescheduling

- Site Assignment Sheet

- Daylight

- Temporary impediments such as weather

- Permanent impediments at data collection sites

Site locations

- Locating assigned sites

- Interstate ramps and surface streets

- Direction of travel/number of observed lanes

- Non-intersection requirement

- Alternate site selection

Data collection forms

- Cover sheet

- Recording observations

- Recording alternate site information

Assembling forms for shipment

Safety and security

Timesheet and expense reports

Field practice at ramps and surface streets

## APPENDIX 7

### Data Collection Form

colorado Seat-belt Usage – Field Survey Form – Survey: \_\_\_\_\_

\_\_ First Week

\_\_ Second Week

Page \_\_\_\_ of \_\_\_\_

County No.:		County:		Site No:		Observer(s):							
# Lanes Available:		Weather 1 = clear 2 = rain 3 = snow 4 = fog	Speed 1 = 0-30 MPH 2 = 31-50 MPH 3 = >50 MPH	Site Location:		Date (Month/Day/Year):				Day of Week: Sun Mon Tues Wed Thurs Fri Sat			
# Lanes Observed:						Start Time: a.m. p.m.				End Time: a.m. p.m.			

Line #	CARS				VANS				SUVs				LIGHT TRUCKS				COMMERCIAL				
	Driver		Passenger		Driver		Passenger		Driver		Passenger		Driver		Passenger		Driver		Passenger		
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
1																					
2																					
3																					
4																					
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<b>Non-</b>																				

<b>Observables</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>	<b>Total:</b>
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