



2023 NEW MEXICO OCCUPANT SEAT BELT OBSERVATION STUDY

DAYTIME AND NIGHTTIME SURVEYS

bklup

STATE OF NEW MEXICO

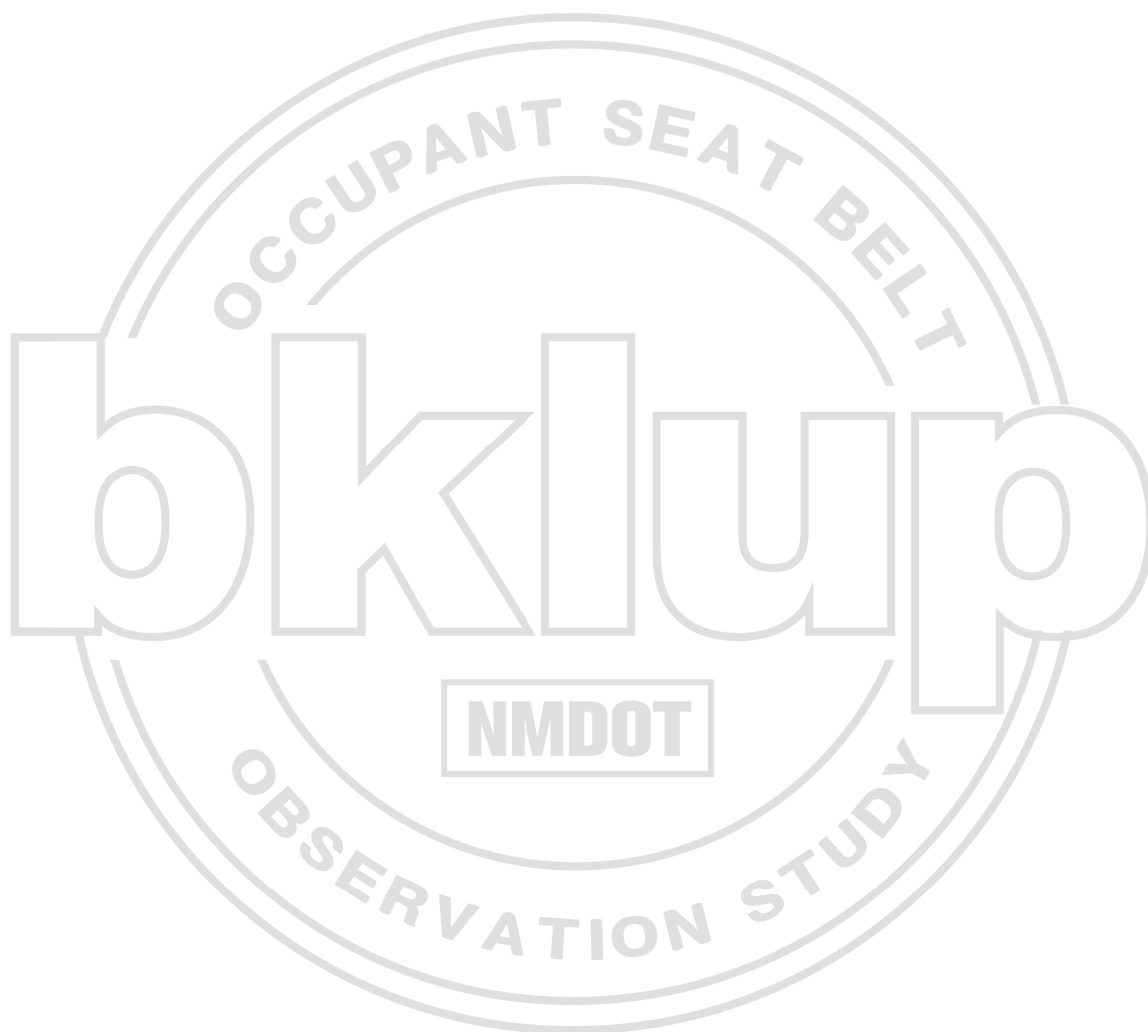
Governor **The Honorable Michelle Lujan Grisham**

NEW MEXICO DEPARTMENT OF TRANSPORTATION

Cabinet Secretary
Ricky Serna

Acting Modal Division Director
Alicia Ortiz

Traffic Safety Division Director
Jeff Barela





2023 NEW MEXICO
OCCUPANT SEAT BELT
OBSERVATION STUDY
DAYTIME AND NIGHTTIME SURVEYS

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PREPARED BY:	PREUSSER RESEARCH GROUP, INC	SAFER NEW MEXICO NOW
	115 TECHNOLOGY DRIVE, UNIT B-307	9400 HOLLY AVENUE NE, SUITE 201
	TRUMBULL, CT 06611	ALBUQUERQUE, NM 87122
	WWW.PREUSSERGROUP.COM	WWW.SAFERNM.ORG

2023 New Mexico Seat Belt Use Rate

91.5%



Report Organization

This report summarizes the results of New Mexico's 2023 Occupant Seat Belt Observation Study providing daytime and nighttime seat belt results. Recommendations based on the findings are presented. Appendices are provided at the end of the report.



2023 New Mexico Occupant Seat Belt Observation Study (Daytime)

The purpose of the study is to provide a statewide estimate of daytime seat belt use using a NHTSA-approved sampling design. New Mexico's safety belt observation methodology has evolved considerably since the first surveys conducted in 1982. The current report will show seat belt results from 2005 to present.

Prior to the 2023 survey, the road segments used for New Mexico's statewide seat belt survey were resampled to be consistent with federal regulations, which require a resampling of sites every five years. The sites were selected in a manner identical to that described in the approved survey design (created in 2013) but using updated data. Thus, observations since 2023 survey occurred at brand new sites which are different from the sites used for the 2018 through 2022 surveys.

Road segments from 19 of New Mexico's 33 counties (accounting for at least 85% of passenger vehicle crash-related fatalities) were sampled for inclusion in the survey (identical to those observed in 2018 to 2022). A total of 94 segments were observed with 28 on Primary highways and 33 each on Secondary and Local roads. All passenger vehicles (cars, pickups, vans, and SUVs) with a gross vehicle weight up to 10,000 pounds were observed in the survey including small commercial vehicles. The target population was all drivers and right front seat passengers (excluding middle passengers and children harnessed in child safety seats) of vehicles traveling on public roads between the hours of 7 a.m. and 6 p.m. The observation period for each selected road segment was 20 minutes.

Quality control measures enacted during the study included: ensuring qualified individuals conducted the observations; assigning sites within relatively close geographic proximity as data collection clusters to increase efficiency and minimize travel costs; and ensuring quality control monitors made random, unannounced visits to at least five percent of the observation sites to evaluate the observer's performance from a distance (if possible), and then work alongside the observer.

Pre and post Click It or Ticket (CIOT) data collection dates and the number of vehicles, total occupants, drivers, and passengers observed are noted below.



2023	Vehicles	Occupants	Drivers	Passengers
PRE-Campaign	4,660	5,731	4,660	1,071
POST-Campaign	5,255	6,579	5,255	1,324

Daytime data collection efforts for the 2023 New Mexico Occupant Seat Belt Observation Survey included a pre-measure conducted in April 2023 and a post measure conducted between June 5 and 21, 2023. Five observers gathered observation data for both waves.

The weighted seat belt use rate for June 2023 is 91.5%. Analyses were also conducted using weighted data to explore pre to post program changes in daytime belt use for 2023. New Mexico drivers and front outboard passengers had a seat belt use rate of 92.1% during the pre-measure and 91.5% for the post-campaign measure. Confidence intervals indicate the change from pre to post was not significant. Unweighted data were used for all remaining analyses.

Driver belt use showed no change from pre (91.8%) to post (91.8%). Passenger use rate increased in a statistically non-significant manner (92.3% pre to 93.7% post). Pickup Truck seat belt use also showed non-significant change from pre to post (89.8% and 89.9%, respectively). Car/Van/SUV seat belt use also showed non-significant change, from pre to post (92.7% to 93.0%, respectively). Road stratification analyses showed small changes from pre to post CIOT. Primary road belt use decreased slightly from 94.2% to 93.7% (not significant); Secondary Road belt use increased (89.2% and 90.4%, pre to post, not significant); and Local Road belt use increased from 87.6% (pre) to 87.9% (post, not significant).

The difference between Car/Van/SUV Driver and Pickup Truck Driver seat belt use post measures (92.6% and 89.7%, respectively) is statistically significant. The difference between Car/Van/SUV Passenger belt use (94.5%) and Pickup Truck Passenger belt use (91.0%) was also significant.

For the June measure, 4,024 occupants were observed on Primary roads, 1,826 occupants were observed on Secondary roads, and 729 occupants were observed on Local roads. Primary roads had the highest seat belt usage rates at 93.7%. Secondary roads (90.4%) and Local roads (87.9%) showed lower use rates.

Daytime seat belt use in New Mexico increased from 89.7% in June 2022 to 91.5% in June 2023. This marks the second rate increase in a row. Prior to the 2022 increase, the 2019 rate (91.8%) was the first annual increase in several years. The 2021 rate (89.6%) may have continued a downward trend that existed aside from the 2019 rate. That is, the increase in 2019 may have been a chance occurrence. It may also be the case that the global pandemic played a role in the recent decreases. This impact may have been due to the increase (at least anecdotally) of higher risk drivers making up a higher percentage of the total drivers or even by lower levels of law enforcement efforts (noting that this may be exacerbated by the events of 2020 condemning law enforcement).



2023 New Mexico Occupant Seat Belt Observation Study (Nighttime)

The eighth New Mexico Nighttime Occupant Seat Belt Observation Study occurred in 2023. This study provides a statewide estimate of seat belt use for night drivers using the same 94 sites examined as part of the National Highway Traffic Safety Association (NHTSA) approved sampling design for daytime belt use in 2013. Sites did not change with the 2023 statewide resample. This allows us to better gauge change over time at night.

Safer New Mexico Now and Preusser Research Group observers partnered to conduct the nighttime survey for adults in front seat outboard positions using night vision equipment when needed. The same vehicle and driver characteristics used to select vehicles for daytime observation were used in night observations, but a few changes were made to the protocol to facilitate nighttime data collection. Observations were made for vehicles traveling on public roads between the hours of 9 p.m. and 2 a.m. The observation period for each selected road segment was 45 minutes. The road segments remained the same, though the observer was permitted to adjust the location for vantage point in case of unsafe conditions and/or lighting conditions.

Observations at night were always conducted by a two-person team with one person acting as the observer and the other documenting the observation data as verbalized by the observer. Attempts were made to conduct night observations in locations with adequate overhead lighting when possible. Observers only used night vision equipment when roadway lighting was insufficient to make natural observations.



2023 New Mexico Nighttime Seat Belt Use Rate

85.9%

Data collection for the 2023 New Mexico Nighttime Occupant Seat Belt Observation Survey was conducted from July 21 to 26, 2023. Six observers gathered observation data over the 2023 study period with 1,135 vehicles observed, and belt use noted for 1,444 occupants.

Shoulder belt use status was observed and recorded on 1,444 front seat occupants, including 1,135 drivers and 309 passengers. New Mexico nighttime drivers and front outboard passengers had a combined unweighted seat belt use of 85.9%. Driver usage was recorded at 85.4% and front seat outboard passenger usage at 88.0%.

Shoulder belt use status in Cars/Van/SUV categories were observed and recorded on 1,131 front seat occupants, including 887 drivers and 244 passengers. Drivers in these vehicle categories accounted for 78.4% of persons observed. Nighttime drivers and front outboard passengers in these vehicle categories had a combined seat belt use of 86.4%. Driver usage was recorded at 85.7% and front seat outboard passenger usage at 88.9%.

Pickup Truck Driver nighttime seat belt use for drivers and front outboard passengers combined was 84.3%. Pickup Truck Driver use was recorded at 84.3% and front passenger seat belt use was recorded at 84.6%.

During the 2023 nighttime surveying period, 949 occupants were observed on Primary roads, 264 occupants were observed on Secondary roads, and 231 occupants were observed on Local roads. Most of the occupants observed (1,131) fell into the Car/Van/SUV categories and 313 Pickup Truck occupants were observed. Primary roads had the highest nighttime seat belt usage at 88.0%, followed by Secondary roads at 87.1%. The lowest percentage of seat belt usage was observed on Local roads at 76.2%.

Nighttime seat belt observations from 2015 to 2023 took place one to two months following implementation of the CIOT high visibility enforcement campaign. A 2.2 percentage point reduction in use was observed from 2016 to 2017, which was further decreased by two percentage points from 2017 to 2018. There was use rate increase of 1.5 percentage points in 2019 (use rate 87.5%). The 2021 use rate decreased by 1.5 percentage points (use rate 86.0%) and for 2022, further decreased by 0.7 percentage points (use rate 85.3%). In 2023, the rate increased 0.6 percentage points to 85.9%. As with daytime belt use, pickup truck drivers demonstrate lower nighttime belt use. These should be considered important populations to target. The nighttime rate was about four percentage points lower than the daytime rate.

Recommendations

New Mexico's seat belt use rate has been increasing the past couple of years, reversing a several year decline (with the exception of 2019 when there was an anomalous increase). The rate for June 2023 (91.5%) surpasses the 90% benchmark for the first time since 2019.

The increase in daytime use coupled with a slight rebound in nighttime use relative to prior years could indicate that the broader yearslong decline in use rate could be reversing. It is unclear whether last year's survey in 2022 was a continuation of the pre-existing decline (given the increase was only 0.1% from the previous year, and that the 2019 increase may have been an aberration) but it is possible that in 2023, the negative impacting elements of 2020 (civil unrest and global pandemic) have been left behind and usage rates are beginning to recover.

That said, the low usage groups remain low. As with prior recommendations timely and strong programming should be undertaken to, hopefully, increase the seat belt use rate in the state. There are many factors that can impact use rates like, type or intensity of media or seat belt enforcement. High visibility enforcement in particular is generally considered to be the best means for achieving increases in belt use. Enforcement rates were declining in much of the country headed into 2019 and the events of 2020 and beyond may have exacerbated that decline.

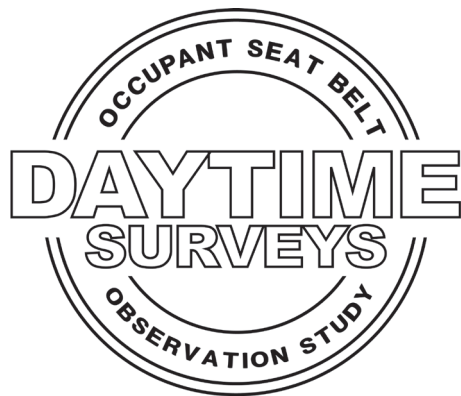
As with previous years, there are areas deserving of extra efforts to continue to make New Mexico roads safer. Particularly, drivers of pickup trucks and occupants travelling on Local roads have the lowest daytime seat belt use rates. In addition, findings from the nighttime study showed lower seat belt use for the same subgroups of vehicles and road types compared to their corresponding daytime seat belt use rates.



Report Organization

This report summarizes the results of the 2023 New Mexico Occupant Seat Belt Observation Survey conducted since 1982. It continues the presentation of nighttime observation data which began in 2015. Both the daytime and nighttime surveys have a section in the report with seven subsections:

1. STUDY PURPOSE
2. STUDY DESIGN OVERVIEW
3. SAMPLING
4. OBSERVER SELECTION, TRAINING, AND ON-SITE PROCEDURES
5. DATA COLLECTION AND ANALYSIS
6. RESULTS
7. DISCUSSION



2023

**NEW MEXICO OCCUPANT SEAT BELT
OBSERVATION STUDY**

DAYTIME

Study Purpose

The purpose of this study is to use a NHTSA-approved sampling design to provide the state of New Mexico with a statewide estimate of seat belt use. In 2023, the road segments used for New Mexico's statewide seat belt survey were resampled to be consistent with federal regulations, which require a resampling of sites every five years. The sites were selected in a manner identical to that described in the approved survey design (created in 2013) but using updated data. Thus, observations for the 2023 survey occurred at brand new sites; different from those observed for the 2018 through 2022 surveys.

Sites were selected based on weighted random probability assessment of road segments from 19 New Mexico counties. These counties contained 85% of all motor vehicle occupant fatalities over the past several years (at the time of survey design). Preusser Research Group was contracted by the New Mexico Department of Transportation (NMDOT), Traffic Safety Division (TSD) to conduct the 2023 New Mexico Occupant Seat Belt Observation Study. Observers from the local organization Safer New Mexico Now provided Preusser Research Group with experienced local personnel who surveyed seat belt use for adults in front seat outboard positions at 94 sites for both a pre- and post-CIOT campaign measure.

Study Design Overview

Several research designs for belt use rates have been implemented since law implementation in 1982. The NHTSA 2011 issuance of new Uniform Criteria for State Observational Surveys of Seat Belt Use resulted in new approved design being implemented for the seat belt survey years since 2013.

Sites selected in the 2023 resample were used for the 2023 survey as mandated by NHTSA following the same site selection criteria as the previous design. Road segments from 19 of New Mexico's 33 counties (accounting for 85.4% of passenger vehicle crash-related fatalities) were sampled for inclusion in the survey. The road segments were divided into Primary, Secondary, or Local road classifications for stratification and sampling selection.

The target population included all drivers and right front seat passengers (excluding middle passengers and children harnessed in child safety seats) of vehicles traveling on public roads between the hours of 7 a.m. and 6 p.m. All passenger vehicles (cars, pickup trucks, vans, and SUVs) with a gross vehicle weight up to 10,000 pounds were observed in the survey. Observations included small commercial vehicles. The observation period for each selected road segment was 20 minutes. The road segments vary in length, permitting the observer to adjust for vantage point in case of unsafe conditions at the usual observation location. Data collection was conducted by trained observers, all who participated in previous seat belt surveys. Data were entered and analyzed by Preusser Research Group.

Sampling

As new redesigns were implemented over the years, the sampling segments that were used varied for the annual rates calculated and reported in this document. There was a new design in 2012 which was revised in 2013 and the current survey sites were resampled (as required by federal regulation) using the design developed in 2013.

For the 2012 survey, a file of road segments was obtained from NHTSA containing 2010 TIGER data developed by the U.S. Census Bureau. These segments are classified by the U.S. Census Bureau using the MAF/TIGER Feature Class Code (MTFCC) with the three main classifications of Primary roads, Secondary roads, and Local roads. Road segment listings in the file included those designations along with specified segment lengths as determined by TIGER. This descriptive information allowed for stratification of road segments by MTFCC. A systematic Probability Proportional to Size (PPS) sampling (with no certainty sites) was employed to then select the road segments to be used as observation sites. These were used for the data collection years of 2012 to current.

The same 108 road segments had been used for seat belt observations from 1998 through 2012. This was reduced to 94 segments in 2013 with 28 on Primary highways and 33 each on Secondary and Local roads. These reductions were structured to manage resources most effectively while also meeting the NHTSA-required standard error rate of 2.5% or less. Additional data collection may be scheduled in instances where the standard error rates exceed required levels. Exclusion options were exercised to remove aberrant locations such as rural roads in non-MSA counties, non-public roads, unnamed roads, unpaved roads, vehicular trails, access ramps, cul-de-sacs, traffic circles, and service drives.

When any of these selected road segments become permanently unavailable, a reserve road segment is used. The reserve road segment sample consists of an additional 20% of road segments per MTFCC. More detailed information about the sampling methodology can be found in the Appendix of the 2014 report (Davis, Pearce & Logstead, 2014).

The same method described for the 2013 redesign was used to sample new sites for both the 2018 and 2023 surveys. The distribution of sites across roadway type remained consistent.

Observer Selection, Training, and On-site Procedures

Qualified individuals meeting New Mexico-established criteria conducted the observations. A three-hour refresher training was held. Practice surveys were completed and checks for inter-observer consistency were performed.

Maps showing the location of all observation sites and Site Assignment Sheets were provided to the observers. These indicated the observed road name, the crossroad included within the road segment (or nearest crossroad), assigned date, assigned time, and assigned direction of travel. Sites within relatively close geographic proximity are assigned as data collection clusters to minimize travel costs.

[DURING THE SURVEY, THE OBSERVER]



OBSERVED AS MANY LANES OF TRAFFIC AS COULD BE COMFORTABLY MONITORED WHILE OBTAINING DATA ON 99% OF THE VEHICLES;



OBSERVED ONLY ONE PREDETERMINED DIRECTION OF TRAFFIC (THE OPPOSITE DIRECTION COULD BE USED AND NOTED IF SUNSHINE IN THE EYES OR OTHER FACTORS HAMPERED OBSERVATION);



OBSERVED ALL PASSENGER VEHICLES, INCLUDING COMMERCIAL VEHICLES WEIGHING LESS THAN 10,000 POUNDS;



RECORDED SEAT BELT USE BY BOTH DRIVERS AND RIGHT FRONT SEAT OCCUPANTS, INCLUDING CHILDREN RIDING IN BOOSTER SEATS (THE ONLY RIGHT FRONT SEAT OCCUPANTS EXCLUDED FROM THE STUDY WERE CHILD PASSENGERS TRAVELING IN CHILD CAR SEATS WITH HARNESS STRAPS).



All observers used audio recorders when observing in high traffic volume segments and then transcribed them to the NMDOT Seat Belt Observation Form (Appendix II). Observers marked the forms directly during observation periods in low volume areas. Observers recorded belt use by marking the form appropriately for each person in each vehicle, with no marks made for absent passengers. The forms were then provided to PRG for data entry.

[OCCUPANTS WERE RECORDED AS:]



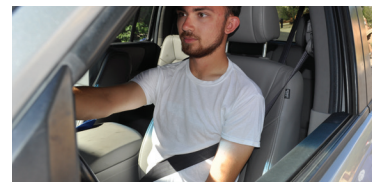
BELTED

IF THE SHOULDER BELT WAS IN FRONT OF THE PERSON'S SHOULDER;



UNBELTED

IF THE SHOULDER BELT WAS NOT IN FRONT OF THE PERSON'S SHOULDER;



UNKNOWN

**IF IT COULD NOT REASONABLY BE DETERMINED
WHETHER THE DRIVER OR RIGHT FRONT PASSENGER WAS BELTED.**



Quality control monitors made random, unannounced visits to at least 5% of the observation sites. During these visits, the quality control monitor evaluated the observer's performance from a distance (if possible), and then worked alongside the observer. The quality control monitor ensured that the observer was following all survey protocols including arriving on time at assigned sites, completing the cover sheet and observation forms, and making accurate observations of seat belt use. The quality control monitor prepares site visit reports highlighting any problems with data collection site locations and observer performance. The quality control monitor also serves as a point of contact during the data collection should the observers have a question arising during this time.

Data Collection and Analysis

Daytime data collection efforts for the 2023 New Mexico Occupant Seat Belt Observation Survey included a pre-measure conducted in April 2023, and a post measure conducted between June 5 and 21, 2023. Five observers gathered observation data. Completed observation data forms were sent to Preusser Research Group for data entry using Excel and/or SPSS. Data cleaning procedures were performed including 10% entry checks to assess entry accuracy across all data entry forms completed and variable frequency counts to identify ineligible entry values or outliers.

Results

During the pre-measure, shoulder belt use was observed and recorded on 5,731 front seat occupants including 4,660 drivers and 1,071 passengers. Drivers accounted for 81.3% of persons observed with passengers accounting for 18.7%.

For the post measure, shoulder belt use status was observed and recorded on 6,579 front seat occupants, including 5,255 drivers and 1,324 passengers. Drivers accounted for 79.9% of persons observed and passengers accounted for 20.1% of persons observed.

A total of 136 (80 in pre- and 56 in post) observations (1.1%) of the entire observation sample for both waves combined were marked as seat belt use “unknown.” These cases were removed for weighting and analysis, but the overall numbers were well within allowable targeted observation limits therefore no sites needed to be re-observed.

The total number of vehicles and occupants observed for 2005 to 2023 post measures are presented in Table 1 (Reduced numbers of vehicles and occupants observed beginning in 2013 resulted from a study design change). Probabilities to judge significance were set to 0.05. That is, the probability of a difference being due to chance must be less than 5% to deem the difference significant.

T1 [TABLE 1]

VEHICLES AND OCCUPANTS OBSERVED IN OFFICIAL SEAT BELT SURVEYS, NEW MEXICO, 2005-2023

	2005	2006	2007	2008
Number of Observers	5	5	5	5
Total Vehicles Observed	15,540	15,362	15,085	15,153
Total Occupants Observed	18,378	17,836	17,593	17,525
	2009	2010	2011	2012
Number of Observers	4	4	4	4
Total Vehicles Observed	14,756	14,977	14,531	14,059
Total Occupants Observed	17,314	17,411	16,588	16,151
	2013	2014	2015	2016
Number of Observers	3	3	4	4
Total Vehicles Observed	5,215	3,870	6,540	6,660
Total Occupants Observed	6,874	5,013	8,449	8,530
	2017	2018	2019	2021
Number of Observers	4	4	4	4
Total Vehicles Observed	6,780	4,060	5,378	5,424
Total Occupants Observed	8,642	5,158	6,990	6,881
	2022	2023		
Number of Observers	4	5		
Total Vehicles Observed	5,050	5,255		
Total Occupants Observed	6,410	6,579		

Overall and Pre to Post Weighted Daytime Seat Belt Use

Analyses were conducted to explore pre to post program changes in daytime belt use for 2023. The official June daytime use rate for New Mexico was 91.5%, compared to 89.7% in 2022. The total number of observations in 2023 was comparable to, but slightly higher than in 2022. The 2022 and 2023 confidence intervals overlap, thus indicating no significant change. New Mexico Drivers and front outboard Passengers had a seat belt use rate of 92.1% during the pre-measure—0.6 percentage points higher than the June measurement, but this difference was also non-significant. All remaining analyses on belt use data are with unweighted data.

Categories of Daytime Seat Belt Use [Raw Data]

Pre to post analyses were conducted to identify changes in belt use during the campaign while examination of trends was used to explore belt use data going back to 2005. Tables 2A and 2B show the Driver, Passenger and combined occupant seat belt use rates gathered during the pre and post measures in 2023.

For the pre-measure, New Mexico Drivers had an unweighted seat belt use rate of 91.8%. The unweighted belt use rate for drivers remained at 91.8 for the post-measure. The unweighted percent of pre vs post belted Passengers increased, though not significantly, in the post measure from 92.3% to 93.7%.

T2A [TABLE 2A] PRE-ENFORCEMENT SEAT BELT USE 2023

Type of Vehicle	Number of Occupants Observed (PRE)	Seat Belt Use Percent (PRE)
Car/Van/SUVs (all)	4,239	92.7%
Driver	3,409	92.6%
Passenger	830	93.0%
Pickup Trucks (all)	1,492	89.8%
Driver	1,251	89.8%
Passenger	241	89.6%
All Vehicles (all)	5,731	91.9%
Driver	4,660	91.8%
Passenger	1,071	92.3%

POST-ENFORCEMENT SEAT BELT USE 2023

Type of Vehicle	Number of Occupants Observed (POST)	Seat Belt Use Percent (POST)
Car/Van/SUVs (all)	4,759	93.0%
Driver	3,747	92.6%
Passenger	1,012	94.5%
Pickup Trucks (all)	1,820	89.9%
Driver	1,508	89.7%
Passenger	312	91.0%
All Vehicles (all)	6,579	92.2%
Driver	5,255	91.8%
Passenger	1,324	93.7%

Changes pre to post belt use by vehicle type (Car, Truck, Van and SUV) and road type (Primary, Secondary, and Local Roads) were also examined. Two vehicle categories were created, one which included pickup trucks only and one with cars, SUVs, and vans combined. The isolation of pickup trucks as its own category was due to the existence of previous analyses demonstrating that pickup trucks lag behind the other three vehicle types in seat belt use.

Pickup Truck seat belt use slightly increased from pre to post (89.8% and 89.9% respectively), though not a significant change. Car/Van/SUV seat belt use showed a similar increase in use (not significant increase from pre to post 92.7% and 93.0%, respectively).

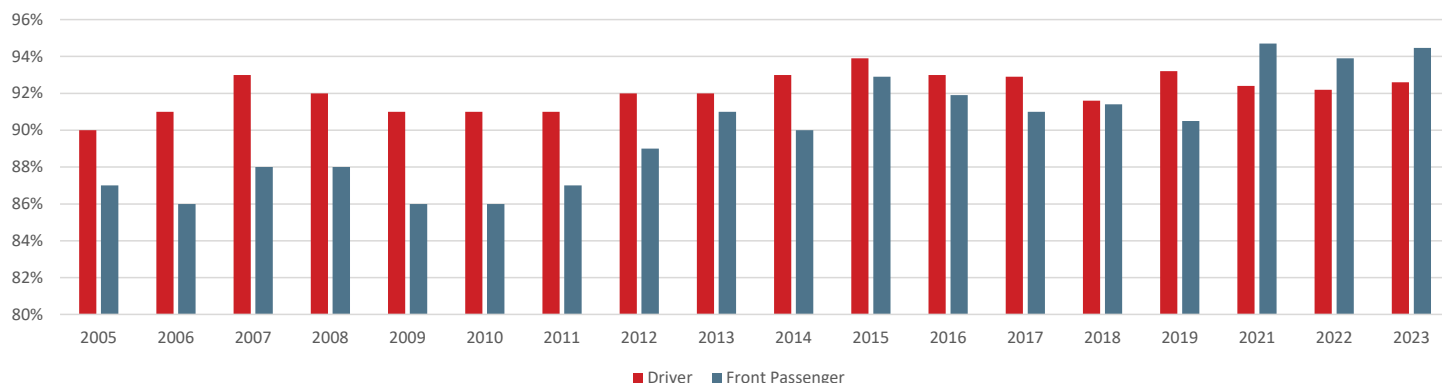
The three road types were analyzed separately for pre-to-post changes in belt use. Primary Road belt use decreased slightly (non-significant) from 94.2% to 93.7%. Secondary road belt use increased from pre to post (89.2% to 90.4%, respectively non-significant). Local road belt use increased slightly from 87.6% to 87.9% (non-significant).

Trend assessments of daytime seat belt use post campaign showed that Driver and Passenger belt use rates by vehicle type have fluctuated only slightly in recent years. As shown by Figure 1, rounded to the nearest whole percentage, observed Car/Van/SUV Driver seat belt use rates reached a peak of 94% in 2015, decreased slightly to 93% in 2016 and 2017, and decreased further to 92% in 2018. Again in 2019 the rate increased to 93%. However, in 2021 the rate decreased to 92% where it remained 2022 but rebounded to 93% in 2023. Passenger use showed a positive trend from 2010 to 2015 (peaking at 93%) and decreased slightly to 92% in 2016, and 91% in 2017, 2018, and 2019. Passenger seat belt use increased to 95% in 2021 but dropped slightly to 94% for 2022 and 2023.

F1

[FIGURE 1]

OBSERVED CAR/VAN/SUV SEAT BELT USE, NEW MEXICO, 2005-2023 (UNWEIGHTED)



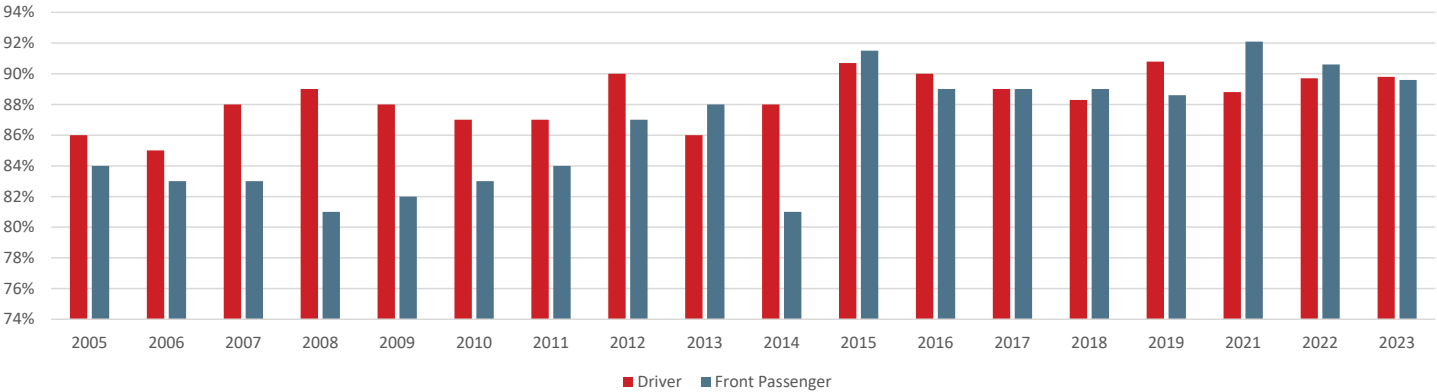
Source: 2023 Annual New Mexico Official Seat Belt Observation Survey; percentages rounded to the nearest whole number.



Pickup Truck Driver seat belt use measured in 2023 was recorded at 89.8% compared to Car/SUV/Van Driver use of 92.6%. Pickup Truck Passenger use (89.6%) was significantly different than non-pickup truck Passenger use (94.5%). Figure 2 shows fluctuations in Pickup Truck Driver belt use (with figures rounded to the nearest whole percent). Usage reached a high point of 91% in 2015 followed by a decreasing trend since (90% in 2016, 89% in 2017 and 88% in 2018), but went back up to 91% in 2019. However, it decreased in 2021 (89%). Pickup Truck Passenger seat belt use shows a more continuous rising trend from 2008 through 2013, with a steep drop off in 2014 but a recovery and increase to 92% belt use for 2015. In the years following, Pickup Truck Passenger belt use remained stable at 89% until it peaked in 2021 (92%). The Passenger rate steadily fell back to 91% in 2022 and 90% for 2023.

F2 [FIGURE 2]

OBSERVED PICKUP TRUCK SEAT BELT USE, NEW MEXICO, 2005-2023 (UNWEIGHTED)

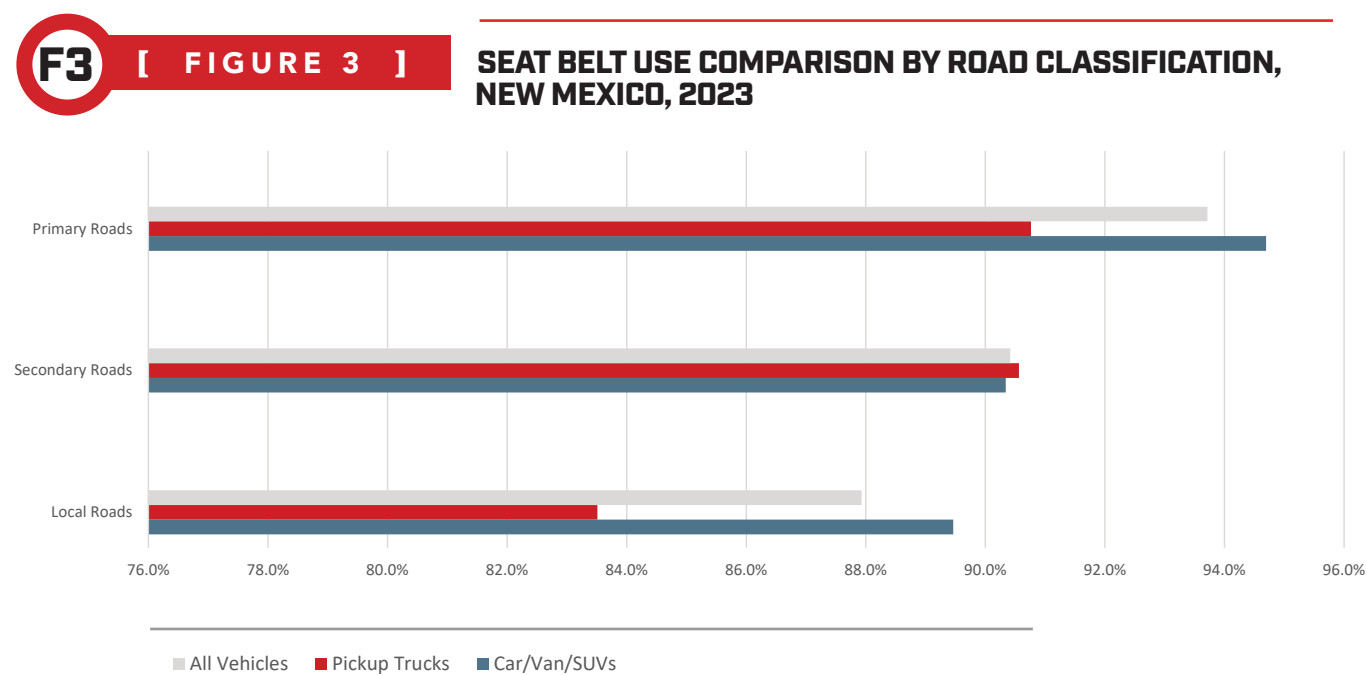


Source: 2023 Annual New Mexico Official Seat Belt Observation Survey; percentages rounded to the nearest whole number.



Road class differences in observed seat belt use were also explored. During the 2023 New Mexico Occupant Seat Belt Observation June Study, 4,024 occupants were observed on Primary roads, 1,826 occupants were observed on Secondary roads, and 729 occupants were observed on Local roads. Most occupants observed fell into the Car/Van/SUV categories (4,759) and 1,820 occupants in trucks were observed.

Table 3 provides counts of the numbers of people observed by road classification and vehicle type. Figure 3 illustrates observed seat belt use for Car/Van/SUV belt use and pickup truck belt use on the three road classifications.



Road Classification	Car/Van/SUVs		Pickup Trucks		All Vehicles	
	# People Observed	Belt Use	# People Observed	Belt Use	# People Observed	Belt Use
Primary Roads	3,017	94.7%	1,007	90.8%	4,024	93.7%
Secondary Roads	1,201	90.3%	625	90.6%	1,826	90.4%
Local Roads	541	89.5%	188	83.5%	729	87.9%
Statewide Total	4,759	93.0%	1,820	89.9%	6,579	92.2%

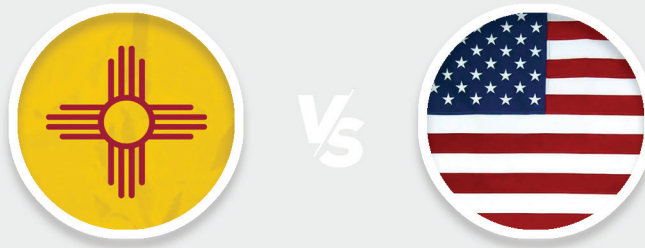
Combining across vehicle types, the lowest percentage of seat belt usage (post) was observed on Local roads at 87.9% compared to 90.4% for Secondary roads and 93.7% for Primary roads. The difference in seat belt use between Primary and Local roads was significant, as was the case between Primary and Secondary roads. The difference between Secondary and Local road use was not significant. The lowest belt use rate overall was in pickup truck occupants on Local roads, at 83.5%. Pickup truck belt use peaked at 90.8% on Primary roads, followed by Secondary roads at 90.6%, indicating significant differences in pickup truck belt use between both Primary versus Local Roads, and Secondary versus Local roads. Car/Van/SUV use followed a similar pattern with highest use found on Primary roads (94.7%), followed by Secondary roads (90.3%), and was lowest on Local roads (89.5%). The difference in Car/Van/SUV belt use was significant between Primary and both the Secondary and Local road types.



Discussion

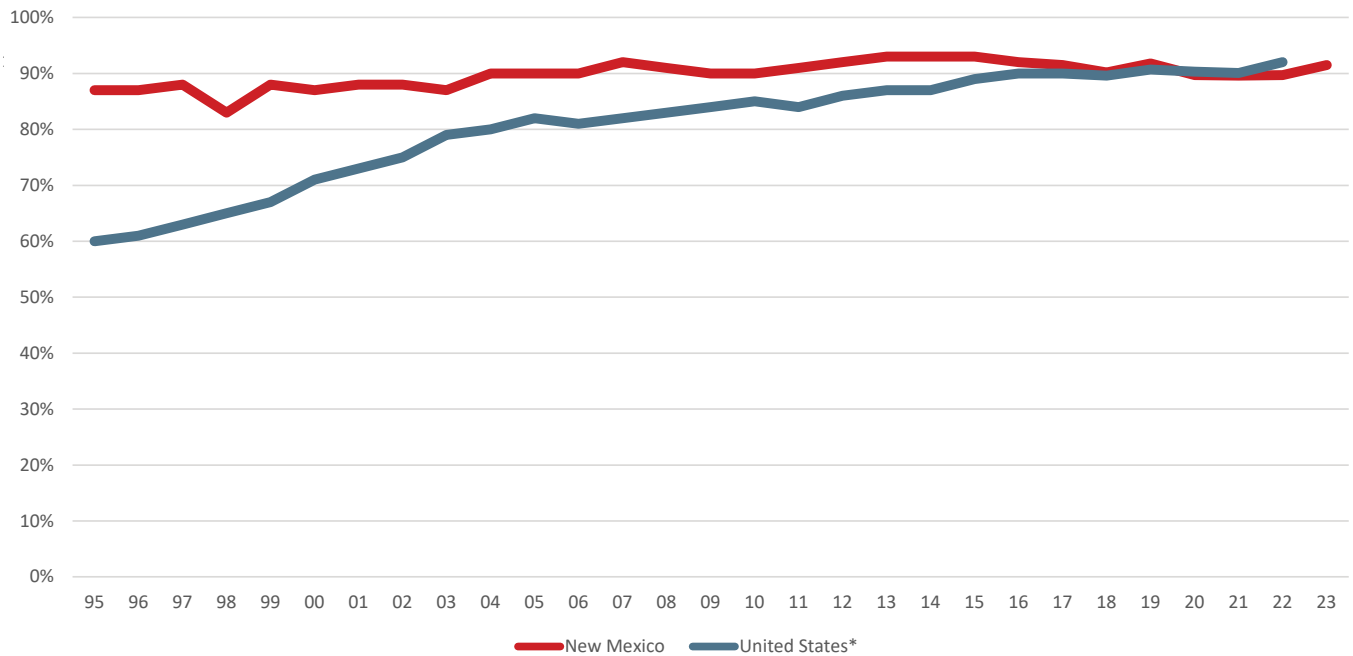
Daytime seat belt use in New Mexico increased from the previous year (from 89.7% to 91.5%). Though the weighted pre-measure (92.1%) was higher than the June rate, the difference is not significant. The increases observed in 2023 in daytime use (pre and post) could indicate that some of the declines in usage observed during and after the negative impacting elements of 2020 (civil unrest and COVID-19) have been left behind and usage is returning to pre-pandemic levels.

Most categories showed small increases in raw belt use from the pre to post surveys. Primary road users have consistently high belt use rates but yielded a slight, non-significant decrease from pre (94.2%) to post (93.7%). Drivers of pickup trucks also had a minor decrease (89.8% to 89.7%). Occupants on Secondary and Local Roads and Passengers regardless of vehicle type all had increases pre-post. Some subgroups (i.e., Local roads, pickup truck occupants) with substantially lower use rates should still be targets for future programmatic and campaign efforts.

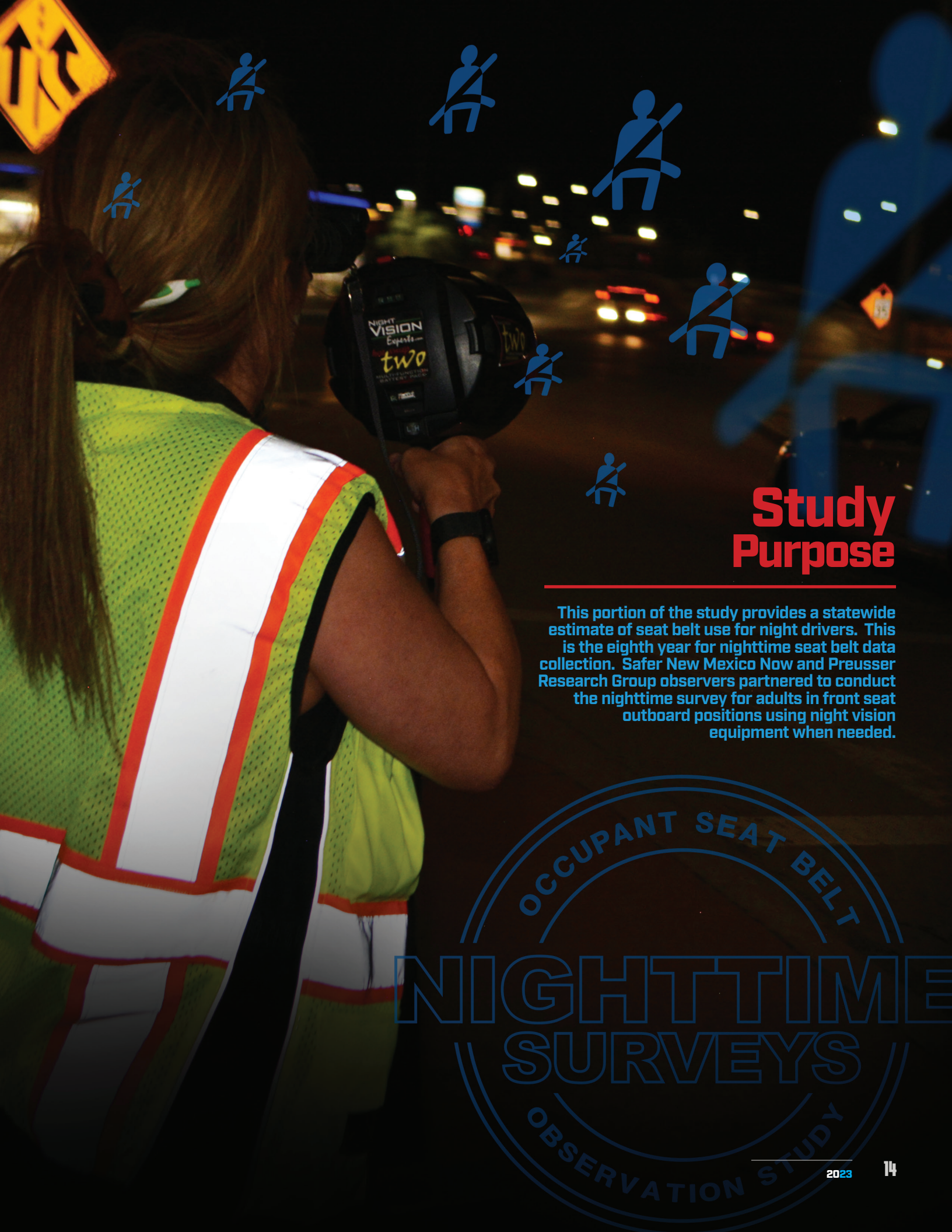


F4 [FIGURE 4]

**OFFICIAL OBSERVED SEAT BELT USE - NEW MEXICO VS. U.S.
1995-2023 (WEIGHTED)**



*Seat Belt Use in 2022 - Overall Results. Traffic Safety Facts. NHTSA. June 2023.



Study Purpose

This portion of the study provides a statewide estimate of seat belt use for night drivers. This is the eighth year for nighttime seat belt data collection. Safer New Mexico Now and Preusser Research Group observers partnered to conduct the nighttime survey for adults in front seat outboard positions using night vision equipment when needed.





2023

**NEW MEXICO OCCUPANT SEAT BELT
OBSERVATION STUDY**

NIGHTTIME

Study Design Overview

This study replicates the method used in the 2015-2022 studies. Data collection was conducted by trained Preusser Research Group nighttime observers partnering with trained Safer New Mexico Now daytime observers, who all had participated in previous seat belt surveys. Data were entered and analyzed by Preusser Research Group.

Just as with the daytime seat belt survey, all passenger vehicles (cars, pickups, vans, and SUVs) with a gross vehicle weight up to 10,000 pounds were observed in the survey. This included small commercial vehicles. The target population was all drivers and right front seat passengers (excluding middle passengers and children harnessed in child safety seats) of vehicles traveling on public roads at night, with observers assessing belt use between the hours of 9 p.m. and 2 a.m. The observation period for each selected road segment was 45 minutes. The road segments vary in length permitting the observer to adjust for vantage point in case of unsafe conditions and/or lighting conditions at the usual observation location.

Sampling

The eighth New Mexico Nighttime Occupant Seat Belt Observation Study occurred in 2023. This study provides a statewide estimate of seat belt use for night drivers using the same 94 sites examined as part of the NHTSA-approved sampling design for daytime belt use in 2013. This allows us to better gauge change over time at night. Since the method of site selection was the same for the 2018 daytime sites and the 2023 daytime sites, we can still reasonably compare day to night use even though the daytime sites changed in 2023.

To recap the sampling methodology used when the night sites were initially selected in 2015, seven counties were involved in the nighttime survey (Bernalillo, Doña Ana, McKinley, Otero, San Juan, Sandoval, and Santa Fe). From these counties, 35 sites were selected (on a prior basis) using the number of daytime observations to weight selection toward higher volume sites (a process fundamentally similar to that used to select daytime sites from the universe of roadways).

Observer Selection, Training, and On-Site Procedures

The on-site procedures used for nighttime observations were very similar to the daytime procedures with a few modifications. Observations at night were always conducted by a two-person team. Preusser Research Group personnel with previous night observation experience were paired with an accompanying team member from Safer New Mexico Now with primary experience in daytime observations and some nighttime experience. Attempts were made to conduct night observations in locations with adequate overhead lighting when possible. Observers only used night vision equipment when roadway lighting was insufficient to make observations. The near-military grade equipment (night vision goggles and infrared spotlights not visible to the naked eye) provided visibility in both dark and less dark conditions. This made vehicle occupants visible for belt observations even in total darkness. Local enforcement agencies were made aware of survey operations.

Data Collection and Analysis

Data collection for the 2023 nighttime survey was conducted from July 21 through 26, 2023. One person on the team served as the observer and would do the actual observation while the second team member served as a recorder who wrote down the information verbalized by the observer. Seven observers gathered observation data over the 2023 study period with 1,135 vehicles observed, and belt use noted for 1,444 occupants (see Table 4). The data sheet used for nighttime observations is included in Appendix III.

T4

[TABLE 4]

VEHICLES AND OCCUPANTS OBSERVED IN OFFICIAL NIGHTTIME SEAT BELT SURVEYS, NEW MEXICO, 2015-2023

	2015	2016	2017	2018
Number of Observers	7	6	5	6
Total Vehicles Observed	1,142	1,588	1,452	1,261
Total Occupants Observed	1,505	2,174	1,990	1,735
	2019	2021	2022	2023
Number of Observers	6	6	5	7
Total Vehicles Observed	1,340	1,171	1,194	1,135
Total Occupants Observed	1,840	1,563	1,558	1,444

Data collected by the observers in the field were examined for completeness and checked for accuracy prior to submission. Completed observation data forms were sent to Preusser Research Group for data entry using Excel and/or SPSS. Data cleaning procedures were performed included 10% entry checks to assess entry accuracy across all data entry forms completed and variable frequency counts to identify ineligible entry values or outliers.

Weighting procedures were not required for the nighttime observation data analysis.

Results

Table 5 shows the number of occupants and nighttime seat belt use by vehicle type.



[TABLE 5]

SEAT BELT USAGE FROM NEW MEXICO 2023 NIGHTTIME OCCUPANT SEAT BELT OBSERVATION STUDY

Type of Vehicle	Number of Occupants Observed	Number of Seat Belt Users	Seat Belt Use (Percent)
Car/Van/SUVs (all)	1,131	977	86.4%
Driver	887	760	85.7%
Passenger	244	217	88.9%
Pickup Trucks (all)	313	264	84.3%
Driver	248	209	84.3%
Passenger	65	55	84.6%
All Vehicles (all)	1,444	1,241	85.9%
Driver	1,135	969	85.4%
Passenger	309	272	88.0%

Shoulder belt use status was observed and recorded on 1,444 front seat occupants, including 1,135 drivers and 309 passengers. Drivers accounted for 78.4% of persons observed and passengers accounted for 21.6% of persons observed. New Mexico nighttime drivers and front outboard passengers had a combined unweighted seat belt use of 85.9%, up 0.6 percentage points from the 2022 rate (85.3%). Nighttime use rates for 2015, 2016, 2017, 2018, and 2019 varied (82.4%, 89.4%, 87.6%, 85.7% and 87.5% respectively). Driver usage in 2023 was recorded at 85.4% and front seat outboard passenger usage at 88.0%.

Shoulder belt use status in Cars/Van/SUV categories were observed and recorded on 1,131 front seat occupants, including 887 drivers and 244 passengers. Drivers accounted for 78.4% percent of persons observed. Nighttime drivers and front outboard passengers in these vehicle categories had a combined seat belt use of 86.4%. Driver usage was recorded at 85.7% and front seat outboard passenger usage at 88.9%.

Pickup Truck Driver nighttime seat belt use for drivers and front outboard passengers combined was 84.3%. Pickup Truck Driver use was recorded at 84.3% and front passenger seat belt use was recorded at 84.6%. The difference between observed Pickup Truck Driver seat belt use (84.3%) and Car/Van/SUV driver seat belt use (86.4%) is not statistically significant.

During the 2023 nighttime survey period, 949 occupants were observed on Primary Roads, 264 occupants were observed on Secondary Roads, and 231 occupants were observed on Local Roads. Table 6 illustrates observed seat belt use for Car/Van/SUV belt use and Pickup Truck belt use on the three road classifications. Local roads had the lowest percentage of observed seat belt usage, regardless of vehicle type with an overall use rate of 76.2%.

T6 [TABLE 6]

NIGHTTIME SURVEYS BY ROAD CLASSIFICATION AND VEHICLE TYPE, NEW MEXICO, 2023

Road Classification	Car/Van/SUVs		Pickup Trucks		All Vehicles	
	# People Observed	Belt Use	# People Observed	Belt Use	# People Observed	Belt Use
Primary Roads	767	88.4%	182	87.4%	949	88.0%
Secondary Roads	178	88.8%	86	83.0%	264	87.1%
Local Roads	186	75.8%	45	79.3%	231	76.2%
Statewide Total	1,131	86.4%	313	84.3%	1,444	85.9%

As illustrated in Table 6, in 2023, Primary roads had the highest nighttime seat belt usage at 88.0%, followed by Secondary roads at 87.1%. The lowest percentage of seat belt usage was observed on Local roads at 76.2%. The percent difference in seat belt use between both Primary and Secondary roads was not significant. Belt use on Local roads was significantly lower than both Primary and Secondary roads. Belt use by Car/Van/SUV occupants showed the highest use rate among Secondary roads (88.8%) followed by Primary roads (88.4%) and Local roads (75.8%). Belt use in pickup trucks was highest on Primary roads (87.4%), followed by Secondary roads (83.0%), and lowest on Local roads (79.3%), but note that the sample size of pickup truck occupants at night was considerably low (313).



Discussion

A 2-percentage point reduction in use from 2017-2018 was followed by a 1.5-point increase from 2018-2019. Despite that the 2019 rate was higher than in 2018, the rates were still below the highest recorded (89.4%) in 2016. The use rate further decreased in 2021 to 86.0%. In 2022, the rate fell further to 85.3%. For 2023t use rate rebounded somewhat (by 0.6 percentage points) to 85.9%. As with daytime belt use, drivers in pickup trucks and occupants travelling on Local roads demonstrate lower nighttime belt use. These should be considered important populations to target.

bklup NMDOT

Awareness Campaigns

slodwn/bklup NMDOT

endwi justdrive



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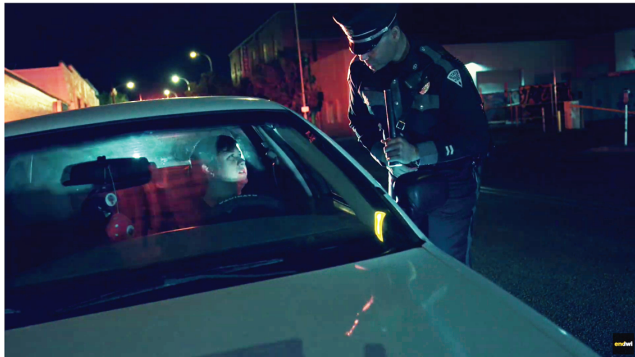
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NMDOT BKLUP Childs Drawing.mp4

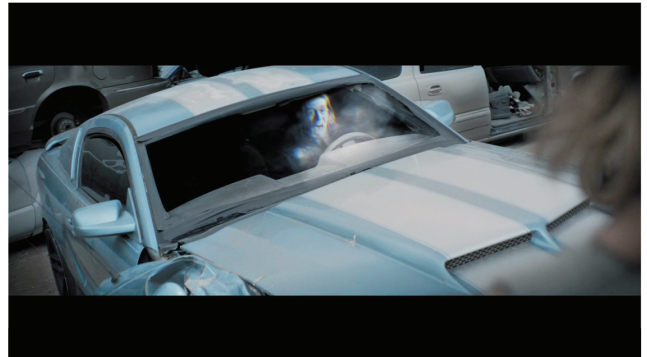
slodwn/bklup NMDOT

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slodwn/bklup NMDOT

endwi justdrive



slodwn/bklup NMDOT



New Mexico Department of Transportation's SLODWN/BKLUP Campaigns were created to help reduce the number of injuries and fatalities on our roadways. Through our continuing efforts, we promote the safe practices of always driving the speed limit and wearing seat belts. Our ultimate goal in New Mexico is to end avoidable injuries and fatalities.

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Recommendations AND REFERENCES

NEW MEXICO OCCUPANT SEAT BELT OBSERVATION STUDY

Recommendations

Daytime seat belt use in New Mexico increased from 89.7% in June 2022 to 91.5% in June 2023. This marks the second rate increase in a row. Prior to the 2022 increase, the 2019 rate (91.8%) was the first annual increase in several years. The 2021 rate (89.6%) may have continued a downward trend that existed aside from the 2019 rate. That is, the increase in 2019 may have been a chance occurrence. It may also be the case that the global pandemic played a role in the recent decreases. This impact may have been due to the increase (at least anecdotally) of higher risk drivers making up a higher percentage of the total drivers or even by lower levels of law enforcement efforts (noting that this may be exacerbated by the events of 2020 condemning law enforcement).

That said, there is still room for improvement. The low usage groups remain low, and given the prior downward trend, the state should expand focus on enforcement during CIOT in future years to increase seat belt use. The fact that the post-CIOT survey showed weighted use decrease by 0.7 percentage points from the pre-rate (92.1%) should be noted. Even though both weighted rates indicate usage is trending upward from recent years, the state should maintain focus on, and possibly increase enforcement at both daytime and nighttime to further increase the use rate, especially among the lower usage groups.

There are many factors that can impact use rates like, type or intensity of media or seat belt enforcement. High visibility enforcement in particular is generally considered to be the best means for achieving increases in belt use. Enforcement rates were declining in much of the country headed into 2019 and the events of 2020 and 2021 may have strengthened that decline.

As with previous years, there are areas deserving of extra efforts to continue to make New Mexico roads safer. Drivers of pickup trucks and occupants travelling on Local roads continue to have the lowest daytime seat belt use rates. In addition, findings from the nighttime study also continue to show lower seat belt use for these same subgroups of vehicles and road types.

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2023 NEW MEXICO OCCUPANT SEAT BELT OBSERVATION STUDY

DAYTIME AND NIGHTTIME SURVEYS



Report Prepared by:

Preusser Research Group, Inc. for the
New Mexico Department of Transportation
Content design and edited by Safer New Mexico Now

Electronic version available at
www.preussergroup.com and www.safernm.org

Photo Credits

Adobe Stock

Safer New Mexico Now Team
Photos included herein are of actual Safer events.

The following were taken from the New Mexico report 2014 (CITE).

A.0 Imputation, Estimation and Variance Estimation

A.1 Imputation

No imputation will be done on missing data.

A.2 Sampling Weights

The following is a summary of the notation used in this section.

- h – Subscript for road segment strata
- i – Subscript for road segment
- j – Subscript for time segment
- k – Subscript for road direction
- l – Subscript for lane
- m – Subscript for vehicle
- n – Subscript for front-seat occupant

Under this stratified multistage sample design, the inclusion probability for each observed vehicle is the product of selection probabilities at all stages: π_{hi} for road segment, $\pi_{j|hi}$ for time segment, $\pi_{k|hij}$ for direction, $\pi_{l|hij}$ for lane, and $\pi_{m|hijl}$ for vehicle. So the overall vehicle inclusion probability is:

$$\pi_{hijklm} = \pi_{hi} \pi_{j|hi} \pi_{k|hij} \pi_{l|hij} \pi_{m|hijl}$$

The sampling weight (design weight) for vehicle m is:

$$whijklm = \pi_{hijklm}$$

A.3 Nonresponse Adjustment

Given the data collection protocol described in this plan, including the provision for the use of alternate observation sites, road segments with non-zero eligible volume, and yet zero observations conducted should be a rare event. Nevertheless, if eligible vehicles passed an eligible site or an alternate eligible site during the observation time but no usable data were collected for some reason, then this site will be considered as a “nonresponding site.” The weight for a nonresponding site will be distributed over other sites in the same road type.

Let:

$$whi = \pi_{hi}$$

be the road segment weight. The nonresponding site nonresponse adjustment factor:

$$fh = \sum_{\text{responding } i} whi$$

will be multiplied to all weights of non-missing road segments in the same road type of the same county and the missing road segments will be dropped from the analysis file. However, if there were no vehicles passing the site during the selected observation time (20 minutes) then this is simply an empty block at this site and this site will not be considered as a nonresponding site, and will not require nonresponse adjustment. In the event that the number of “unknown” seat belt use values exceeds ten percent of the total number of use data collected, observers will be sent to the sites with the largest proportions of unknown (i.e. nonresponse) values. Additional observations will be made, on the same day of the week and at the time of day as the original observations, until the total nonresponse rate is ten percent or less.

A.4 Estimators

Seat Belt Use Rate Estimators

Noting that all front-seat occupants were observed, let the driver/passenger seat belt use status be:

$$y_{hijklm} = \begin{cases} 0 & \text{otherwise} \end{cases}$$

The seat belt use rate estimator is a ratio estimator:

$$\rho = \frac{\sum_{all\ hijklmn} w_{hijklm} y_{hijklm}}{\sum_{all\ hijklmn} w_{hijklm}}$$

This estimator captures traffic volume and vehicle miles traveled through design weights (which will include nonresponse adjustment factors as described in section 5.3, if any) at various stages and it does not require knowledge of VMT/DVMT.

A.5 Variance Estimation

The Survey means procedure available in SAS is well suited to provide the variance for this sample design. The procedure provides options to accommodate a clustered, PPS sample with different weights based on the proportion of road segments from the different MTFCC classes.



DAYTIME SEAT BELT SURVEY INSTRUMENT

Official Seat Belt Observation Form 2023

Date of Observation: / / 2023	Day of Week: _____
Time: Start _____ End _____	Observer Name: _____
Site Number: _____	City & County: _____
Roadway/Street Name _____	Speed Limit: _____

Indicate the number of traffic lanes for each direction of travel by placing an (X) or check mark (✓) in the corresponding lane(s). Draw an arrow in each observed lane to show direction of vehicle travel. Write N, S, E, or W to indicate approximate compass heading. Example: 4-lane roadway, 2 lanes each direction. Both westbound lanes, 1 and 2, were observed.

Mark Diagram Accordingly

<div>LANE 4</div> <div>LANE 3</div> <div>LANE 2</div> <div>LANE 1</div> <div>CENTER DIVIDER</div> <div>LANE 1</div> <div>LANE 2</div> <div>LANE 3</div> <div>LANE 4</div>	<div>LANE 4</div> <div>LANE 3</div> <div>LANE 2</div> <div>LANE 1</div> <div>CENTER DIVIDER</div> <div>LANE 1</div> <div>LANE 2</div> <div>LANE 3</div> <div>LANE 4</div>
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Observer's Comments:

DRAW OR INSERT AERIAL VIEW OF OBSERVATION SITE BELOW:

Sheet No. _____ of _____ for Observation Site Number: _____

INSTRUCTIONS: For each observed vehicle, start a new row. Place an X or ✓ in the appropriate column for driver and outboard front passenger (if applicable). Passenger children are to be counted under "YES" if restrained with seat belt, or "NO" if unrestrained.

#	Vehicle Type		Driver Seat Belted			Passenger Seat Belted			#	Vehicle Type		Driver Seat Belted			Passenger Seat Belted		
	C	T	Yes	No	Unk	Yes	No	Unk		C	T	Yes	No	Unk	Yes	No	Unk
1									36								
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31									66								
32									67								
33									68								
34									69								
35									70								
Totals									Totals								

Year _____ Site Number: _____ Sheet No. _____ of _____



NIGHTTIME SEAT BELT SURVEY INSTRUMENT

New Mexico Nighttime Seat Belt Observation Data Collection Form

SITE ID NUMBER: _____ CITY: _____ OBSERVER NAME: _____

LOCATION: _____
(Observed Street) (Cross Street or other landmark)DATE: _____ - _____ - _____ DAY OF WEEK: _____ WEATHER CONDITION (circle one):
1) Clear/Sunny 2) Light Rain 3) Cloudy 4) Fog 5) Clear but wet

TRAFFIC DIRECTION (circle one): N S E W START TIME (Observation period will last exactly 45 minutes): _____ AM or PM (circle one)

	DRIVER			PASSENGER			DRIVER			PASSENGER	
	Vehicle Type	Sex	Use	Sex	Use		Vehicle Type	Sex	Use	Sex	Use
	C = Car T = Pick Up S = SUV V = Van	M = Male F = Female U = Unsure	Y = Yes N = No	M = Male F = Female U = Unsure	Y = Yes N = No U = Unsure		C = Car T = Pick Up S = SUV V = Van	M = Male F = Female U = Unsure	Y = Yes N = No	M = Male F = Female U = Unsure	Y = Yes N = No U = Unsure
1						36					
2						37					
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2023 NEW MEXICO OCCUPANT SEAT BELT OBSERVATION STUDY

DAYTIME AND NIGHTTIME SURVEYS

bklup

STATE OF NEW MEXICO

Governor **The Honorable Michelle Lujan Grisham**

NEW MEXICO DEPARTMENT OF TRANSPORTATION

Cabinet Secretary
Ricky Serna

Acting Modal Division Director
Alicia Ortiz

Traffic Safety Division Director
Jeff Barela