

# Alaska 2018 Survey of Seat Belt Use

*An Observational Study of Seat Belt Use*



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**Under contract with**  
Alaska Highway Safety Office



## ABSTRACT

This observational study assessed 2018 driver and front row outboard passenger seat belt use in Alaska. The National Highway Traffic Safety Administration (NHTSA) requires observational surveys to be completed annually in each state to determine the level of seat belt use for each state. In accordance with the NHTSA's Uniform Criteria for State Observational Surveys of Seat Belt Use as published in 2011, Alaska Injury Prevention Center, DBA Center for Safe Alaskans (Safe Alaskans) under a grant from the Alaska Highway Safety Office, conducted seat belt observations for 2018. The 2018 observations took place from August 6-29, 2018 in the Anchorage, Juneau, Kenai, and Matanuska-Susitna Boroughs; while the Fairbanks North Star Borough observations took place September 10 and September 24-28, 2018. Observation sites were selected according to the NHTSA's criteria based on data from the Alaska Fatality Analysis Reporting System and Alaska Department of Transportation & Public Facilities. During the 2018 study period, a total of 59,129 vehicles were observed (59,030 vehicles were observed excluding unknowns  $n = 99$ ). Excluding total unknowns ( $n = 106$ ), seat belt use was recorded for drivers and front seat outboard passengers in cars, trucks, SUVs, and vans for a total of 73,787 occupants observed. Of those observed, 80.00% ( $n = 59,030$ ) were drivers and 19.99% ( $n = 14,747$ ) were passengers. The results of this study indicate that 91.6% of Alaska drivers and passengers were using a seat belt during the study period.

## INTRODUCTION

Seat belt use has been identified as an important measure in preventing motor vehicle crash related injuries and fatalities. In June 1984, the Alaska State Legislature passed law AS28.05.095 requiring children under six years old to be restrained in motor vehicles, with children under the age of four years old to be transported in a restraint complying with federal safety standards. In February of 1989, the State Legislature amended the provision to require the use of seat belts by all occupants. Alaska became a primary seat belt law enforcement state in May 2006.

The National Highway Traffic Safety Administration (NHTSA) requires that each state complete annual observational surveys to determine seat belt usage rates. Safe Alaskans has conducted these observational surveys under a grant from AHSO since 2004. In April of 2011, the NHTSA published a new Uniform Criteria for State Observational Surveys of Seat Belt Use in the Federal Register, Volume 76, Number 63. The Alaska observation plan as developed by Ron Perkins and Dr. Larry Cook was accepted by the NHTSA as fully compliant with the Uniform Criteria in 2017 and was used for the implementation of the 2018 survey.

## METHODS

### Study Design

Five of Alaska's 28 Boroughs were selected for inclusion in this study: Anchorage, Matanuska-Susitna, Kenai Peninsula, Fairbanks North Star, and Juneau. These boroughs accounted for 85% of the motor vehicle fatalities recorded in the state of Alaska. Road segments were classified by functional class as "Arterials," "Collectors," or "Local" roads and then sample sites were

selected. Seat belt use was recorded for the drivers and outboard front seat passengers of passenger vehicles under 10,000 pounds that were travelling on the sample segment between the hours of 7:00 a.m. and 6 p.m. Children in child safety seats were excluded from this study. Trained observers observed traffic at each selected site for 45-minute periods.

## Training

A total of four observers were hired and trained to complete the seat belt observations. A training manual, developed by Ron Perkins, was given to each observer along with a detailed work schedule that included the days, times, locations, lanes, and traffic direction to be observed, as well as detailed paper maps for each site observed. Training covered each section of the manual and observers also received training on each of the 4 sections of the App where they would record and submit their observations.

Training also required completing observations with the Project Director at roadway intersections to ensure that each observer understood how to read the maps, determine the direction of traffic to be measured, knew where to perform the observations, and what to observe. Additionally, observers demonstrated required proficiency to conduct and upload the recorded observations through the App on the iPads.

Observers were also encouraged to call Safe Alaskans with any discrepancies or questions and were given instructions on what to do if a site could not be observed or if traffic was moving too quickly to accurately capture seat belt use.

## Data Collection

Safe Alaskans reviewed data collection methods and determined the opportunity existed to utilize improved technology to increase data quality, accuracy, fidelity, and timeliness during OPUS data collection process. Safe Alaskans contracted with IN3 at Purdue University who has demonstrated successful App development for several other States conducting Occupant Protection Use Surveys. Using NHTSA-approved site locations across Alaska, coordinates were identified, documented and submitted to IN3. Similar to other States, Safe Alaskans chose to run this App on iPads.

Observers were provided iPads with waterproof cases to easily access the App. This App guided the Observer through 4 sections: 1) Pre-Survey where weather conditions and total number of lanes of traffic are documented. As well as confirmation of location as indicated by the site number, street name, and aerial view map and the direction of traffic flow 2) Survey portion where the observations of driver and passenger seat belt use as well as driver cell phone use are collected 3) Post-Survey where Observers can document any variances such as alternate site due to construction or an accident at original site, and 4) Submission of data by uploading each observation through email embedded in the App at the end of each day.

Each observer recorded seat belt use for 45-minute intervals at three to eight predetermined road segment locations per day between August 6, 2018 – August 29, 2018. Random start times were assigned between 7:00 a.m. and 10:00 a.m. and daily observation sites were grouped

geographically to facilitate moving from one site to the next. Due to personnel challenges, the Fairbanks North Star Borough observations were conducted September 10, 2018 and September 24, 2018 – September 28, 2018.

The observers recorded driver and outboard passenger seat belt use for passenger vehicles under 10,000 pounds travelling in the two right most lanes, where there were two lanes of traffic. If there was only one lane of traffic at the site, the observer recorded seat belts use for just the one lane of traffic. Observations were only recorded for those vehicles traveling under approximately 30 miles per hour to eliminate error. Additionally, observers recorded any comments they felt might be helpful when interpreting the data.

### Alternate Observation Dates

At the onset of the 2018 study, all observations were to be completed in June. Due to multiple challenges including: delays in development and testing of the App, a significant flood in the Safe Alaskans office, theft of iPads during flood restoration, and personnel issues in Fairbanks, observations were slightly delayed. Anchorage, Matanuska-Susitna, Kenai Peninsula and Juneau Boroughs observations were conducted in August 2018 and the Fairbanks North Star Borough observations were conducted in September 2018.

### Alternate Site Selection

Observers were trained on procedures in case they are unable to observe traffic at the designated location. Observation employees were provided with the following instructions for selecting alternate sites: *In case of construction or some other hazard that makes it unwise or impossible to observe at the specified location, you will go in the “opposite” direction than the traffic you are measuring to find the next available intersection. This will be the traffic that would have been using the original location if it hadn’t been closed.*

Alternate sites were not needed during the 2018 observations.

### Data Analysis

After each 45-minute observation, data recorded on the App was automatically saved in Comma Separated Value (CSV) format. At the end of daily observations, observers submitted each observation, which was automatically sent to an email embedded in the App. Once all data collection was completed, the CSV files were sent to Ron Perkins who transferred them into an Excel workbook, then cleaned the dataset, and collaborated with Dr. Cook to weight the observations according to the site’s final probability of selection.

In order to weight the observations, the average annual daily traffic volumes for each of the boroughs in the sample were considered and then traffic volumes for each stratum within the borough were calculated. Next, each site’s probability of selection was calculated, and observations then weighted accordingly. The overall seat belt use rate was calculated using weighted data. All numerical results reported were calculated using the unweighted dataset. Percentages of use by borough and vehicle type were analyzed using unweighted data. Safe

Alaskans analyzed the data using IBM SPSS Statistics Version 25. Frequency analyses were conducted for variables such as seat belt use, borough, seating position, and vehicle type. Crosstab analyses were performed to assess the relationship between vehicle type and borough to seat belt use.

## RESULTS

### Seat Belt Use

Unweighted frequencies for vehicle type, borough, and seating position are presented in Table 1. Excluding unknowns ( $n = 106$ ), a total of 73,787 vehicle occupants were observed. Of those observations, 80.00% ( $n = 59,030$ ) were drivers and 19.99% ( $n = 14,757$ ) were passengers. Over one third (36.6%) of the observed vehicles were SUVs followed by trucks at 29.7% and cars at 26.1%. Over half (58.67%) of all vehicles observed were in the Municipality of Anchorage.

**Table 1. Characteristics of 2018 Study Sample ( $N = 59,030$  Vehicles,  $N = 73,787$  occupants excluding unknowns)**

Characteristic	Observed	
	<i>n</i>	%
<b>Seating Position</b>		
Driver	59,030	80.0
Passenger	14,757	20.0
<b>Vehicle Type</b>		
Car	15,404	26.1
SUV	21,615	36.6
Truck	17,507	29.7
Van	4,504	7.6
<b>Borough</b>		
Anchorage	34,627	58.7
Fairbanks North Star	8,029	13.6
Juneau	3,048	5.1
Kenai	7,646	12.9
Matanuska Susitna	5,680	9.6

Figure 1 shows the trend line for the total weighted seat belt use rate by year since 2008. It is important to note that study methodologies have changed over the years to comply with NHTSA regulations and seat belt use rates from year to year may not be comparable. New sites were selected in 2017 per NHTSA's protocol. The 2018 weighted seat belt rate was measured at 91.6%. The standard error was determined to be 0.9%, well within the standard error of 2.5% as required by NHTSA guidelines.

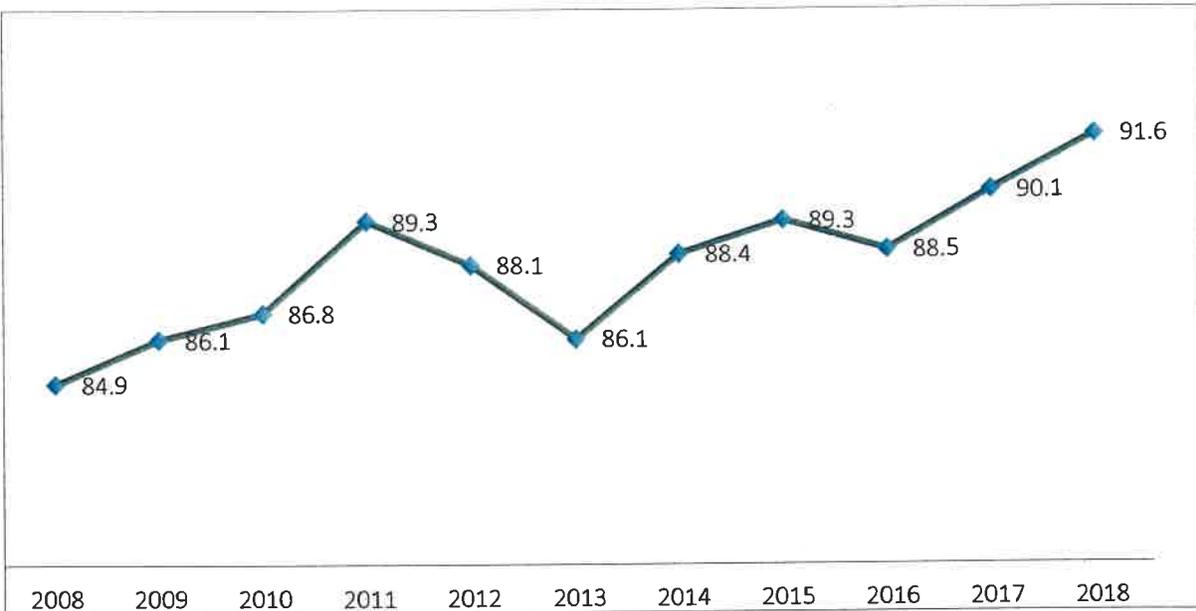


Table 2 displays crosstab results for unweighted seat belt use in Alaska by vehicle type between 2014 and 2018. SUV vehicle occupants had the greatest unweighted percent of observed seat belt use between 2015 and 2018. Truck occupants had the lowest percent of observed seat belt use across all four years during the same time-period.

**Table 2. Seat Belt Use Rates in Alaska by Vehicle Type, 2014-2018**

Occupants	2018		2017		2016		2015	
	<i>n</i>	%	<i>n</i>	%	<i>N</i>	%	<i>n</i>	%
Car	17,512	92.4	16,419	91.6	12,052	90.6	10,974	91.0
SUV	26,007	94.7	15,657	92.4	12,940	91.7	9,472	91.1
Truck	19,102	88.2	14,306	86.6	12,454	86.3	8,564	84.9
Van	5,381	92.0	4,012	90.2	3,265	88.5	2,430	89.5

Seat belt use rates by Borough between 2015 and 2018 are shown in Table 3. Seat belt use continues to be the highest in the Matanuska Susitna Borough with 97.6% of occupants observed wearing a seat belt. Fairbanks North Star Borough reflects a downward trend with 2018 seat belt use rate at 84.9%.

**Table 3. Unweighted Seat Belt Use Rates for Occupants in Alaska by Region, 2015-2018**

Borough	2018		2017		2016		2015	
	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%
Anchorage	40,108	93.5	26,427	90.1	22,013	89.4	16,677	90.6
Fairbanks	8,163	84.9	7,005	88.5	6,099	89.0	5,846	91.9
Juneau	3,437	89.4	2,268	86.6	3,495	86.9	3,061	90.0
Kenai	9,548	90.6	8,055	90.7	2,566	81.3	1,774	82.6
Matanuska Susitna	6,746	97.6	6,639	93.4	6,538	95.0	4,082	82.5

Table 4 provides the results for crosstab analyses of observed seat belt use by vehicle type and borough from 2014 to 2018. With an observed seat belt use rate of 98.7% in 2018, SUV occupants observed in the Matanuska Susitna area had the highest restraint use by vehicle type and borough; while truck occupants in the Fairbanks North Star Borough had the lowest seat belt use rates at 78.2%.

**Table 4. Unweighted Seat Belt Use Rates by Vehicle Type and Borough, 2014-2018**

Borough	2018		2017		2016		2015	
	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%	<i>n</i>	%
<b>Anchorage</b>								
Car	10,789	93.6	9,727	91.3	6,081	89.9	6,013	92.0
SUV	16,142	95.5	8,185	91.7	7,865	91.5	5,457	92.0
Truck	9,982	90.6	6,416	86.5	6,301	86.8	3,914	86.7
Van	3145	92.7	2,099	90.4	1,766	87.7	1,293	90.9
<b>Fairbanks</b>								
Car	2,296	86.3	1,854	90.7	2,326	91.1	2,302	93.6
SUV	2,783	90.2	2,410	92.4	1,266	90.5	1,139	96.2
Truck	2,570	78.2	2,265	83.5	2,080	85.4	1,992	87.8
Van	514	88.9	476	86.7	427	91.6	413	92.4
<b>Juneau</b>								
Car	925	88.4	744	91.1	1,093	88.5	977	91.3
SUV	1,288	93.3	776	91.1	1,138	91.0	1,082	92.2
Truck	799	83.8	555	77.9	941	81.9	721	85.0
Van	425	92.4	193	80.8	323	83.0	281	90.9
<b>Kenai</b>								
Car	1,695	91.3	2,099	92.0	596	86.4	445	81.1
SUV	3,754	93.6	2,411	93.3	774	85.0	559	87.6
Truck	3,304	86.8	2,837	87.3	969	75.7	642	79.2
Van	795	91.8	708	92.2	227	82.8	128	85.9
<b>MatanuskaSusitna</b>								
Car	1,807	98.2	1,995	93.7	1,956	95.1	1,237	85.1
SUV	1,990	98.7	1,875	94.7	1,897	96.5	1,235	84.4
Truck	2,447	96.6	2,233	91.9	2,163	93.5	1,295	78.9
Van	502	97.1	536	94.0	522	95.6	2,430	89.5

### Cell Phone Use

Observers were asked to record driver cell phone use. For the 2018 observation period, cell phone use was defined as a driver holding a phone to their ear while driving, or visibly manipulating a hand-held device while driving. In 2018, 6.9% of drivers were observed using a cell phone, which reflects an increase over the 5.1% observed rate in 2017. Driver cell phone use between 2012 and 2018 is shown in Table 5.

**Table 5: Statewide Driver Cell Phone Use, 2011-2018**

	2018	2017	2016	2015	2014	2013	2012
% Of Cell Phone Use	6.9%	5.1%	7.4%	3.6%	5.4%	7.0%	6.5%

## SUMMARY

This observational study assessed 2018 driver and front row outboard passenger seat belt use in Alaska. Excluding unknowns ( $n = 99$ ), a total of 59,030 vehicles were observed during the 2018 study period. Seat belt use was recorded for drivers and front seat outboard passengers in cars, trucks, SUVs and vans. There were 73,787 occupants observed, excluding unknowns ( $n = 106$ ), and the results of this study found that 91.6% of Alaska drivers and passengers were using a seat belt during the study period. This is the highest rate of seat belt use observed within the state of Alaska.

**APPENDIX TO PART 1340**

**STATE SEAT BELT USE SURVEY REPORTING FORM**

**PART A:** To be completed by the Governor's Highway Safety Representative (GR) or if applicable, the Coordinator of the State Highway Safety Office.

State: **Alaska**                      Calendar Year of Survey: **2018**

Statewide Seat Belt Use Rate: **91.6%**

I hereby certify that:

- *Tammy Kramer* has been designated by the Governor as the State's Highway Safety Representative (GR), and if applicable, the GR has delegated the authority to sign the certification in writing to \_\_\_\_\_, the Coordinator of the State Highway Safety Office.
- The reported Statewide seat belt use rate is based on a survey design that was approved by NHTSA, in writing, as conforming to the Uniform Criteria for State Observational Surveys of Seat Belt Use, 23 CFR Part 1340.
- The survey design has remained unchanged since the survey was approved by NHTSA.
- Lawrence J Cook, a qualified survey statistician, has reviewed the seat belt use rate reported above and information reported in Part B and has determined that they meet the Uniform Criteria for State Observational Surveys of Seat Belt Use, 23 CFR Part 1340.

*Tammy Kramer*

Signature

10/2/2018

Date

Tammy KRAMER

Printed name of signing official

## PART B

### Data Collected at Observation Sites

Borough	Site Type <sup>1</sup>	Site ID	Road Type	Date Observed	Sample Weight	Number of Drivers	Number of Front Passengers	Number of Occupants <sup>2</sup> Belted	Number of Occupants Unbelted	Number of Occupants with Unknown Belt Use
ANCHO RAGE	Original	1	1	8/25/18	1	86	57	137	6	0
ANCHO RAGE	Original	2	1	8/25/18	1.28316 1	103	31	132	1	1
ANCHO RAGE	Original	3	1	8/28/18	1	162	59	207	14	0
ANCHO RAGE	Original	5	1	8/15/18	1.13458 5	130	12	130	12	0
ANCHO RAGE	Original	6	1	8/25/18	1.24754 3	115	41	137	19	0
ANCHO RAGE	Original	7	1	8/25/18	1.28316 1	64	17	77	3	1
ANCHO RAGE	Original	8	1	8/28/18	1.13458 5	229	48	247	30	0
ANCHO RAGE	Original	9	1	8/28/18	1	697	88	777	8	0
ANCHO RAGE	Original	10	1	8/25/18	1.00563 7	155	38	187	6	0
ANCHO RAGE	Original	11	1	8/15/18	1	270	54	285	35	4
ANCHO RAGE	Original	12	1	8/29/18	1.13815	315	33	313	33	2
ANCHO RAGE	Original	13	1	8/28/18	1.45045 5	166	43	194	15	0
ANCHO RAGE	Original	14	1	8/14/18	4.65957 7	497	84	565	16	0
ANCHO RAGE	Original	15	1	8/25/18	6.95812 9	60	13	67	6	0
ANCHO RAGE	Original	16	1	8/14/18	1.34433 2	206	38	228	16	0
ANCHO RAGE	Original	17	1	8/14/18	3.35857 4	294	69	328	35	0
ANCHO	Original	18	1	8/29/18	2.80139	400	93	458	35	0

<sup>1</sup> Identify if the observation site is an original observation site or an alternate observation site.

<sup>2</sup> Occupants refer to both drivers and passengers

RAGE					8					
ANCHO RAGE	Original	19	1	8/29/18	2.61665 3	529	81	588	21	1
ANCHO RAGE	Original	20	1	8/16/18	2.78187 6	230	52	253	29	0
ANCHO RAGE	Original	21	1	8/15/18	1.81465 4	477	112	515	74	0
ANCHO RAGE	Original	22	1	8/28/18	5.58828	529	99	583	45	0
ANCHO RAGE	Original	23	1	8/15/18	1.60918 5	391	133	451	72	1
ANCHO RAGE	Original	24	1	8/20/18	2.35788 5	304	46	303	47	0
ANCHO RAGE	Original	25	1	8/13/18	10.2771 9	187	51	223	15	0
ANCHO RAGE	Original	26	1	8/16/18	4.15422 2	283	29	277	33	2
ANCHO RAGE	Original	27	1	8/16/18	4.85113 6	197	9	192	14	0
ANCHO RAGE	Original	28	1	8/13/18	2.55968	230	55	266	19	0
ANCHO RAGE	Original	29	1	8/20/18	4.05566 6	243	37	238	41	1
ANCHO RAGE	Original	30	1	8/13/18	3.72175 9	196	40	220	15	1
ANCHO RAGE	Original	31	1	8/29/18	39.9848 9	166	32	177	20	1
ANCHO RAGE	Original	32	1	8/29/18	1.44662 1	449	100	514	34	1
ANCHO RAGE	Original	34	1	8/13/18	3.44058 4	45	4	48	1	0
ANCHO RAGE	Original	35	1	8/28/18	1.63346 4	300	60	317	42	1
ANCHO RAGE	Original	36	1	8/14/18	3.55429 1	374	82	408	48	0
ANCHO RAGE	Original	37	1	8/14/18	1.04839 1	407	104	469	42	0
ANCHO RAGE	Original	38	1	8/28/18	1	521	101	552	70	0
ANCHO RAGE	Original	39	1	8/13/18	1.02423 5	371	48	394	20	5
ANCHO RAGE	Original	40	1	8/13/18	1.07795 6	324	74	388	10	0

ANCHO RAGE	Original	41	1	8/13/18	2.11183 9	443	103	514	29	3
ANCHO RAGE	Original	42	1	8/20/18	4.02245 6	429	137	536	28	2
ANCHO RAGE	Original	43	1	8/20/18	4.17919 7	565	135	657	43	0
ANCHO RAGE	Original	44	1	8/20/18	4.28208 5	515	109	584	40	0
ANCHO RAGE	Original	45	1	8/29/18	4.23424 6	291	40	320	11	0
ANCHO RAGE	Original	46	1	8/16/18	4.26402 2	165	37	176	26	0
ANCHO RAGE	Original	47	1	8/16/18	2.82463 4	142	36	157	21	0
ANCHO RAGE	Original	48	1	8/16/18	5.82567 8	168	19	157	30	0
ANCHO RAGE	Original	50	1	8/18/18	3.25875	524	233	701	55	1
ANCHO RAGE	Original	51	1	8/21/18	1.47225 3	669	137	754	52	0
ANCHO RAGE	Original	52	1	8/06/18	1.11243 6	552	139	674	17	0
ANCHO RAGE	Original	53	1	8/06/18	1.91444 2	615	174	759	30	0
ANCHO RAGE	Original	54	1	8/06/18	1.09636 6	592	179	733	36	2
ANCHO RAGE	Original	55	1	8/06/18	1.49267 1	479	150	604	22	3
ANCHO RAGE	Original	56	1	8/06/18	1	333	108	415	25	1
ANCHO RAGE	Original	57	1	8/13/18	1.13207 1	157	30	174	12	1
ANCHO RAGE	Original	58	1	8/28/18	1.89334 1	355	65	402	18	0
ANCHO RAGE	Original	59	1	8/13/18	1.66696 9	153	14	155	12	0
ANCHO RAGE	Original	60	1	8/28/18	1.51133	130	28	153	5	0
ANCHO RAGE	Original	61	1	8/6/18	15.4036 8	471	125	568	28	0
ANCHO RAGE	Original	62	1	8/06/18	118.908 3	477	103	561	19	0
ANCHO	Original	63	1	8/21/18	2.79962	179	43	206	16	0

RAGE					7					
ANCHO RAGE	Original	64	1	8/21/18	8.683007	344	89	403	30	0
ANCHO RAGE	Original	65	1	8/21/18	2.621819	427	83	484	26	0
ANCHO RAGE	Original	66	1	8/21/18	4.177017	796	216	984	26	2
ANCHO RAGE	Original	67	1	8/20/18	3.803778	564	132	647	49	0
ANCHO RAGE	Original	68	1	8/20/18	1.496974	515	110	581	44	0
ANCHO RAGE	Original	69	1	8/20/18	3.54402	366	72	383	54	1
ANCHO RAGE	Original	70	1	8/28/18	5.887512	352	59	391	20	0
ANCHO RAGE	Original	71	1	8/21/18	1.792547	291	54	328	16	1
ANCHO RAGE	Original	72	1	8/21/18	2.217459	481	128	567	42	0
ANCHO RAGE	Original	73	1	8/18/18	1.499441	536	260	769	27	0
ANCHO RAGE	Original	74	1	8/18/18	1.47517	403	119	489	33	0
ANCHO RAGE	Original	75	1	8/18/18	5.98023	201	58	242	17	0
ANCHO RAGE	Original	76	1	8/18/18	14.16579	288	142	379	51	0
ANCHO RAGE	Original	77	1	8/18/18	7.05591	253	98	323	28	0
ANCHO RAGE	Original	78	1	8/21/18	14.45956	407	101	484	24	0
ANCHO RAGE	Original	79	1	8/21/18	6.903396	373	91	433	31	0
ANCHO RAGE	Original	80	1	8/21/18	5.322887	363	60	408	15	0
ANCHO RAGE	Original	81	1	8/16/18	3.599739	416	87	467	36	0
ANCHO RAGE	Original	82	1	8/16/18	1.856146	440	94	494	39	1
ANCHO RAGE	Original	83	1	8/13/18	2.714587	342	70	398	11	3
ANCHO RAGE	Original	84	1	8/20/18	3.623661	482	101	548	35	0

ANCHO RAGE	Original	85	1	8/20/18	1.86969	478	115	569	23	1
ANCHO RAGE	Original	86	1	8/13/18	1.147768	437	100	495	41	1
ANCHO RAGE	Original	87	1	8/13/18	1.446179	330	72	379	22	1
ANCHO RAGE	Original	88	1	8/13/18	6.457468	210	65	250	23	2
ANCHO RAGE	Original	89	1	8/18/18	1	516	229	698	47	0
ANCHO RAGE	Original	90	1	8/16/18	1	158	40	188	10	0
ANCHO RAGE	Original	91	1	8/16/18	1	159	31	182	7	1
ANCHO RAGE	Original	92	1	8/16/18	1	205	61	256	10	0
ANCHO RAGE	Original	93	1	8/16/18	1	267	31	280	18	0
ANCHO RAGE	Original	94	1	8/16/18	1	654	63	684	33	0
ANCHO RAGE	Original	95	1	8/17/18	1	68	23	88	2	1
ANCHO RAGE	Original	96	1	8/17/18	1	393	99	467	24	1
ANCHO RAGE	Original	97	1	8/17/18	1	254	51	280	22	3
ANCHO RAGE	Original	98	1	8/17/18	1	43	18	54	7	0
ANCHO RAGE	Original	99	1	8/14/18	1	230	79	296	9	4
ANCHO RAGE	Original	100	1	8/14/18	1	109	32	130	10	1
ANCHO RAGE	Original	101	1	8/14/18	1	126	38	153	11	0
ANCHO RAGE	Original	102	1	8/14/18	1	10	4	13	1	0
ANCHO RAGE	Original	103	1	8/14/18	1	11	6	16	1	0
ANCHO RAGE	Original	104	1	8/17/18	1.460578	219	59	266	12	0
ANCHO RAGE	Original	106	1	8/17/18	3.324727	124	41	155	10	0
ANCHO	Original	107	1	8/17/18	1.46057	189	58	226	21	0

RAGE					8					
ANCHO RAGE	Original	108	1	8/14/18	68.52517	102	36	128	6	4
ANCHO RAGE	Original	109	1	8/14/18	273.8587	18	6	21	3	0
ANCHO RAGE	Original	110	6	8/15/18	48.01985	38	7	36	9	0
ANCHO RAGE	Original	111	6	8/16/18	51.20573	201	45	214	31	1
ANCHO RAGE	Original	112	6	8/16/18	8.926289	97	18	106	9	0
ANCHO RAGE	Original	113	6	8/13/18	9.520823	159	42	194	7	0
ANCHO RAGE	Original	114	6	8/16/18	4.728455	411	110	482	39	0
ANCHO RAGE	Original	115	6	8/27/18	7.92844	157	36	161	29	3
ANCHO RAGE	Original	116	6	8/21/18	51.42376	388	66	422	32	0
ANCHO RAGE	Original	117	6	8/18/18	24.4446	67	16	65	14	4
ANCHO RAGE	Original	118	9	8/17/18	8.505794	80	19	96	2	1
FAIRBA NKS	Original	119	1	9/26/18	34.25276	185	28	174	39	0
FAIRBA NKS	Original	120	1	9/26/18	32.50707	200	41	204	37	0
FAIRBA NKS	Original	121	1	9/28/18	4.544164	257	56	263	50	0
FAIRBA NKS	Original	122	1	9/10/18	4.074277	536	68	522	78	4
FAIRBA NKS	Original	123	1	9/28/18	1.301226	108	16	114	10	0
FAIRBA NKS	Original	124	1	9/24/18	2.466176	350	54	353	51	0
FAIRBA NKS	Original	125	1	9/25/18	1.941783	77	14	78	13	0
FAIRBA NKS	Original	126	1	9/25/18	1.407637	98	27	108	17	0
FAIRBA NKS	Original	127	1	9/24/18	2.350058	390	58	404	44	0
FAIRBA NKS	Original	129	1	9/25/18	23.44171	289	50	280	59	0

FAIRBA NKS	Original	130	1	9/25/18	2.59543 3	189	35	185	38	1
FAIRBA NKS	Original	131	1	9/24/18	5.84345 1	250	55	260	43	2
FAIRBA NKS	Original	132	1	9/10/18	4.03764 7	622	150	654	116	2
FAIRBA NKS	Original	133	1	9/27/18	6.58906 8	161	48	186	23	0
FAIRBA NKS	Original	134	1	9/27/18	4.53199 4	201	43	200	44	0
FAIRBA NKS	Original	135	1	9/24/18	4.31774 6	311	91	338	63	1
FAIRBA NKS	Original	136	1	9/10/18	1.77759 9	392	90	382	100	0
FAIRBA NKS	Original	137	1	9/10/18	12.9226 6	436	104	470	70	0
FAIRBA NKS	Original	138	1	9/27/18	1.84178 7	189	12	181	20	0
FAIRBA NKS	Original	139	1	9/28/18	3.56030 2	316	90	344	62	0
FAIRBA NKS	Original	140	1	9/28/18	40.5053 7	172	31	180	23	0
FAIRBA NKS	Original	141	1	9/26/18	3.55204 3	208	40	214	34	0
FAIRBA NKS	Original	142	1	9/26/18	4.50687 3	112	21	106	27	0
FAIRBA NKS	Original	143	1	9/27/18	5.23505 7	251	62	268	45	0
FAIRBA NKS	Original	144	1	9/27/18	5.09843 8	211	37	200	48	0
FAIRBA NKS	Original	145	1	9/26/18	1.66607 3	39	9	38	10	0
FAIRBA NKS	Original	146	1	9/26/18	1.88361 6	59	7	61	5	0
FAIRBA NKS	Original	147	1	9/26/18	1	75	12	75	12	0
FAIRBA NKS	Original	148	1	9/26/18	1	104	24	99	29	0
FAIRBA NKS	Original	149	1	9/27/18	1.02629 4	58	6	42	22	0
FAIRBA NKS	Original	150	1	9/27/28	1.51925 4	62	6	66	2	0
FAIRBA	Original	151	6	9/10/18	6.64668	152	24	166	10	0

NKS					4					
FAIRBA NKS	Original	152	6	9/28/18	2.52894 6	139	35	142	32	0
FAIRBA NKS	Original	153	6	9/28/18	1	72	18	83	7	0
FAIRBA NKS	Original	154	6	9/27/18	4.14293 1	142	21	135	28	0
FAIRBA NKS	Original	155	6	9/28/18	2.99834	240	48	238	50	0
FAIRBA NKS	Original	156	6	9/25/18	18.1012 8	25	2	20	7	0
FAIRBA NKS	Original	157	6	9/25/18	4.56722 9	83	15	71	27	0
FAIRBA NKS	Original	158	6	9/25/18	4.92896 1	111	9	103	17	0
FAIRBA NKS	Original	159	6	9/27/18	79.0100 8	75	13	74	14	0
FAIRBA NKS	Original	160	6	9/26/18	19.1229 6	33	1	22	12	0
FAIRBA NKS	Original	161	9	9/25/18	21.5508	15	4	15	4	0
FAIRBA NKS	Original	162	9	9/25/18	8.00983 8	44	6	45	5	0
JUNEAU	Original	163	1	8/10/18	1.93752 7	322	76	364	34	0
JUNEAU	Original	164	1	8/10/18	1.10180 6	299	86	355	30	0
JUNEAU	Original	165	1	8/10/18	1.37971 5	358	95	408	41	4
JUNEAU	Original	166	1	8/09/10	1.19266 4	245	64	284	25	0
JUNEAU	Original	167	1	8/09/10	2.66002 2	463	127	559	31	0
JUNEAU	Original	168	1	8/09/10	6.06212 5	398	96	454	39	1
JUNEAU	Original	169	1	8/09/10	6.17347 7	153	32	162	21	2
JUNEAU	Original	170	6	8/10/18	25.3935 6	126	38	130	34	0
JUNEAU	Original	171	6	8/10/18	10.4524 9	370	90	389	71	0
JUNEAU	Original	172	9	8/09/10	20.8564 1	324	89	332	78	3

KENAI	Original	173	1	8/08/18	1.68960 2	127	77	196	8	0
KENAI	Original	174	1	8/08/18	4.22104 1	159	103	256	6	0
KENAI	Original	175	1	8/08/18	1	159	50	197	9	3
KENAI	Original	176	1	8/08/18	1.23880 2	203	106	299	10	0
KENAI	Original	177	1	8/08/18	2.12830 4	207	63	246	24	0
KENAI	Original	178	1	8/09/18	1.43171 5	394	56	433	17	0
KENAI	Original	179	1	8/09/18	2.02212 1	315	124	403	36	0
KENAI	Original	180	1	8/07/18	1.79957 7	75	28	95	8	0
KENAI	Original	181	1	8/07/18	1.60786 7	133	26	138	21	0
KENAI	Original	182	1	8/10/18	1.17595 3	71	36	99	8	0
KENAI	Original	183	1	8/10/18	1.88607 1	49	21	65	5	0
KENAI	Original	184	1	8/10/18	4.51665	136	68	186	18	0
KENAI	Original	185	1	8/10/18	1.16808 7	115	77	183	9	0
KENAI	Original	186	1	8/10/18	3.32988 5	160	76	188	48	0
KENAI	Original	187	1	8/10/18	1.66585 3	134	68	193	9	0
KENAI	Original	188	1	8/10/18	2.06088 8	334	136	397	67	6
KENAI	Original	189	1	8/07/18	1.17647 7	339	117	391	65	0
KENAI	Original	190	1	8/07/18	1.97135	35	12	45	2	0
KENAI	Original	191	1	8/07/18	3.48253 7	367	76	401	42	0
KENAI	Original	192	1	8/09/18	1	369	116	422	63	0
KENAI	Original	193	1	8/09/18	2.26174 3	321	92	378	34	1
KENAI	Original	194	1	8/09/18	1.89540 9	290	94	361	23	0
KENAI	Original	195	1	8/09/18	1.10995 4	254	92	311	35	0

KENAI	Original	196	1	8/07/18	1.80358	284	88	347	25	0
KENAI	Original	197	1	8/06/18	1.63744	598	218	706	110	0
KENAI	Original	198	1	8/06/18	1.23477 3	60	48	106	2	0
KENAI	Original	199	1	8/06/18	1	374	230	580	22	2
KENAI	Original	200	1	8/09/18	6.78760 3	360	99	433	26	0
KENAI	Original	201	1	8/06/18	1.40588 3	180	88	246	20	2
KENAI	Original	202	6	8/10/18	8.31831 1	316	113	351	78	0
KENAI	Original	203	6	8/07/18	3.23492 9	169	46	204	11	0
KENAI	Original	204	6	8/07/18	2.34935 8	134	41	145	30	0
KENAI	Original	205	6	8/08/10	15.1250 4	39	14	49	4	0
KENAI	Original	206	6	8/06/18	1.73881 7	146	102	236	12	0
KENAI	Original	207	6	8/06/18	23.5991 2	190	74	194	70	0
KENAI	Original	208	9	8/10/18	2.93666 4	60	24	68	16	0
MATANU SKA	Original	209	1	8/11/18	1	42	11	51	2	0
MATANU SKA	Original	210	1	8/10/18	1	160	49	205	4	0
MATANU SKA	Original	211	1	8/08/18	5.02798 5	126	23	145	4	0
MATANU SKA	Original	212	1	8/09/18	5.85752	135	33	163	5	0
MATANU SKA	Original	213	1	8/08/18	1.25248	122	28	145	5	0
MATANU SKA	Original	214	1	8/11/18	4.63086 3	96	16	110	2	0
MATANU SKA	Original	215	1	8/11/18	3.76881 3	94	17	111	0	0
MATANU SKA	Original	216	1	8/11/18	20.3466 8	128	35	162	1	0
MATANU SKA	Original	217	1	8/08/18	3.22941 9	131	24	152	3	0
MATANU SKA	Original	218	1	8/08/18	2.14550 9	129	40	168	1	0

MATANU SKA	Original	219	1	8/08/18	1.202209	126	30	155	1	0
MATANU SKA	Original	220	1	8/10/18	1.272819	119	28	143	4	0
MATANU SKA	Original	221	1	8/10/18	1	155	42	192	5	0
MATANU SKA	Original	222	1	8/10/18	1	149	34	173	10	0
MATANU SKA	Original	223	1	8/10/18	1	142	29	170	1	0
MATANU SKA	Original	224	1	8/07/18	1.445482	106	9	113	2	0
MATANU SKA	Original	226	1	8/13/18	1.658648	112	33	142	3	0
MATANU SKA	Original	227	1	8/07/18	1	182	27	203	6	0
MATANU SKA	Original	229	1	8/13/18	1	178	44	222	0	0
MATANU SKA	Original	230	1	8/13/18	4.138642	109	35	142	2	0
MATANU SKA	Original	231	1	8/07/18	3.731235	226	38	259	5	0
MATANU SKA	Original	232	1	8/08/18	2.023344	124	32	154	2	0
MATANU SKA	Original	233	1	8/13/18	1.253821	144	30	167	7	0
MATANU SKA	Original	234	1	8/07/18	3.985215	203	32	227	8	0
MATANU SKA	Original	235	1		3.727644	252	64	308	8	0
MATANU SKA	Original	236	1	8/08/18	3.985317	141	38	172	7	0
MATANU SKA	Original	237	1	8/07/18	3.957757	156	41	191	6	0
MATANU SKA	Original	238	1	8/07/18	1.84292	205	37	236	6	0
MATANU SKA	Original	239	1	8/07/18	1	136	27	161	2	0
MATANU SKA	Original	240	1	8/07/18	2.438151	184	44	218	10	0
MATANU SKA	Original	241	1	8/08/18	4.182412	95	14	102	7	0

MATANU SKA	Original	242	1	8/08/18	39.0669 1	157	11	158	10	0
MATANU SKA	Original	243	1	8/08/18	4.63847 7	99	9	106	2	0
MATANU SKA	Original	244	1	8/08/18	2.91801 9	125	29	149	5	0
MATANU SKA	Original	245	1	8/10/18	5.33593 2	135	8	141	2	0
MATANU SKA	Original	246	1	8/10/18	5.68422 1	79	14	93	0	0
MATANU SKA	Original	247	6	8/11/18	3.22720 2	49	15	63	1	0
MATANU SKA	Original	248	6	8/11/18	4.22830 9	51	16	67	0	0
MATANU SKA	Original	249	6	8/11/18	4.88716 1	123	33	154	2	0
MATANU SKA	Original	250	6	8/11/18	12.4805 2	52	18	68	2	0
MATANU SKA	Original	251	6	8/09/18	30.2080 4	30	3	32	1	0
MATANU SKA	Original	252	6	8/13/18	15.3224 2	23	5	27	1	0
MATANU SKA	Original	253	6	8/08/18	10.5333 4	66	3	65	4	0
MATANU SKA	Original	254	6	8/10/18	4.54837 3	124	38	160	2	0
MATANU SKA	Original	255	6	8/13/18	74.5807 7	123	31	153	1	0
MATANU SKA	Original	256	9	8/13/18	173.553 8	79	23	99	3	0
<b>TOTAL</b>						<b>59,129</b>	<b>14,764</b>	<b>68,002</b>	<b>5,785</b>	<b>106</b>

**Standard Error of Statewide Belt Use Rate<sup>3</sup>: 0.9%**

**Nonresponse Rate, as provided in § 1340.9(f)**

**Nonresponse rate for the survey variable seat belt use: 0.14%**

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<sup>3</sup> The standard error may not exceed 2.5 percent.