2021
Occupant Protection Use Survey Report

An Observational Study of Seat Belt Use in Alaska

Produced for the Alaska Highway Safety Office

By Center for Safe Alaskans

September 2021

Toward Zero Deaths — Everyone Counts on Alaska's Roadways

CENTER FOR safe ALASKANS — preventing injuries & promoting wellbeing

Center for Safe Alaskans • 4241 B St #100 • Anchorage, AK 99503 • (907) 929-3939 • **safealaskans.org**

Table of Contents

Abstract

This observational study assessed 2021 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 2021. The 2021 observations took place from July 15 – August 9, 2021 in Anchorage, Juneau, Kenai, Fairbanks North Star Borough, and Matanuska-Susitna Boroughs. 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 2021 study period, a total of 53,638 vehicles were observed. Excluding total unknowns (*n* = 28), seat belt use was recorded for drivers and front seat outboard passengers in cars, trucks, SUVs, and vans for a total of 66,777 occupants observed. Of those observed, 80.3% (*n* = 53,638) were drivers and 19.7% (*n* = 13,139) were passengers. The results of this study indicate that 91.7% 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, except for 2020 when the observation requirement was waived do to the COVID-19 pandemic risks. 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 2021 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

In 2021, eight observers were hired and trained to complete the seat belt observations. A training manual, developed by Ron Perkins and updated by Marcia Howell, 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 then assigned sites to conduct observations on training day and were observed from a distance to ensure quality control. 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

In 2018, 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. In 2021, Safe Alaskans continued using the App on iPads to observe NHTSA-approved site locations across Alaska.

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 July 15 – August 9, 2021. 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.

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

The 2021 Alaska OPUS did not require alternate dates.

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.*

Numerous road construction projects across Alaska slowed down traffic at a few sites, but alternate sites were not needed during the 2021 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, Excel workbooks were sent to Ron Perkins who 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. Percentages of seatbelt use by borough, vehicle type, and overall seatbelt use were calculated using weighted data. Driver cell phone use was calculated using unweighted data. Ron Perkins analyzed the data using IBM SPSS Statistics. 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* = 28), a total of 66,777 vehicle occupants were observed. Of those observations, 80.3% (*n* = 53,638) were drivers and 19.7% (*n* = 13,139) were passengers. Over one third (35.8%) of the observed vehicles were SUVs followed by trucks at 32.3% and cars at 25%, then vans at 6.0%. Half (50.6%) of all vehicles observed were in the Municipality of Anchorage.

Table 1. Characteristics of 2021 Study Sample (*N* = 53,683 Vehicles, *N* = 66,777 occupants excluding unknowns)

	Observed	
Seating Position	*n*	%
Driver	53,638	80.3
Passenger	13,139	19.7
Vehicle Type	*n*	%
Car	13,408	25.0
SUV	19,188	35.8
Truck	17,351	32.3
Van	3,691	6.9
Borough	*n*	%
Anchorage	27,127	50.6
Fairbanks	9,235	17.2
Juneau	1,625	3.0
Kenai	7,116	13.3
Matanuska Susitna	8,535	15.9

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 2021 weighted seat belt rate was measured at 91.7%. The standard error was determined to be 0.82%, well within the standard error of 2.5% as required by NHTSA guidelines.

Figure 1: Weighted Seat Belt Use Rate (Percent)

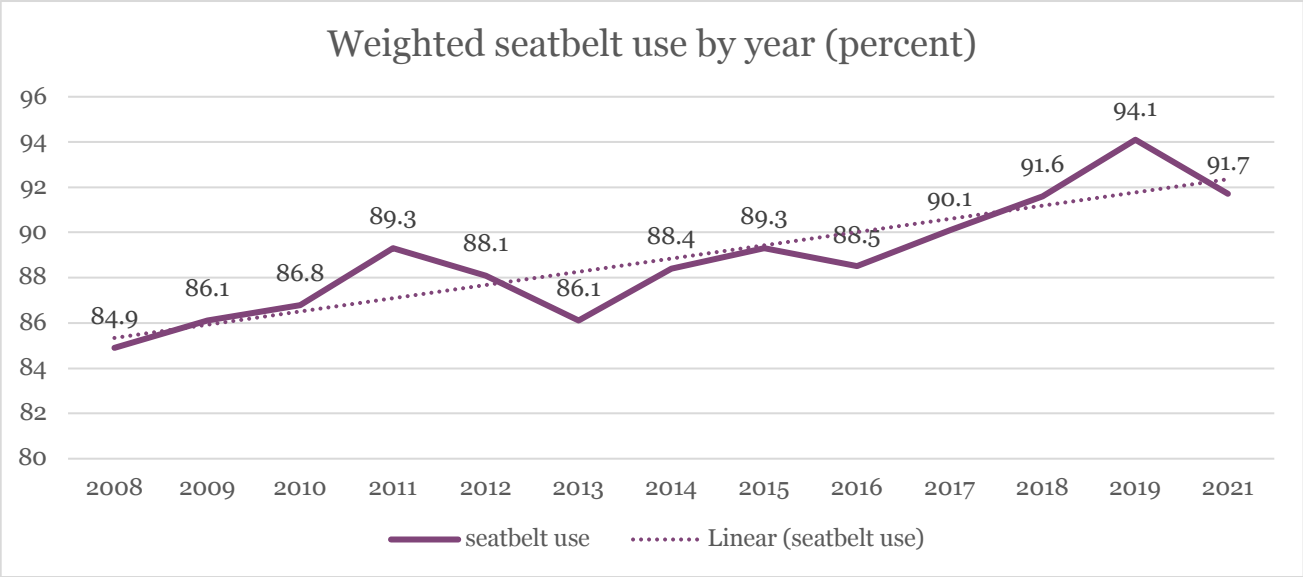

Table 2 displays crosstab results for weighted seat belt use in Alaska by vehicle type between 2015 and 2021. Truck occupants had the lowest percent of observed seat belt use across all six years.

Table 2. Seat Belt Use Rates in Alaska by Vehicle Type, 2015-2021

	2021	2019	2018	2017	2016	2015
OCCUPANTS	**%**	%	%	%	%	%
CAR	**92.1**	94.4	92.4	91.6	90.6	91.0
SUV	**93.8**	95.5	94.7	92.4	91.7	91.1
TRUCK	**88.9**	91.6	88.2	86.6	86.3	84.9
VAN	**93.2**	95.4	92.0	90.2	88.5	89.5

Seat belt use rates by Borough between 2015 and 2021 are shown in Table 3. In 2021, seatbelt use rates decreased everywhere except in Fairbanks where it increased by over 2 percentage points. The greatest declines from 2019 to 2021 were in the Kenai and Matanuska Sustina areas with percentage point decreases of 11.8 and 6.5 respectively.

Table 3. Weighted Seat Belt Use Rates for Occupants in Alaska by Region, 2015-2021

	2021	2019	2018	2017	2016	2015
Borough	***%***	%	%	%	%	%
Anchorage	**94.9**	96.5	93.5	90.1	89.4	90.6
Fairbanks	**93.5**	91.2	84.9	88.5	89.0	91.9
Juneau	**81.5**	84.7	89.4	86.6	86.9	90.0

Kenai	**85.0**	96.8	90.6	90.7	81.3	82.6
Matanuska Susitna	**85.1**	91.6	97.6	93.4	95.0	82.5

Table 4 provides the results for crosstab analyses of weighted observed seat belt use by vehicle type and borough from 2015 to 2021. With an observed seat belt use rate of 97.7% in 2021, van occupants observed in the Fairbanks area had the highest restraint use by vehicle type and borough; while truck occupants in Juneau had the lowest seat belt use rates at 67.5%.

Table 4. Weighted Seat Belt Use Rates by Vehicle Type and Borough, 2015-2021

	2021	2019	2018	2017	2016	2015
Borough		%	%	%	%	%
Anchorage						
Car	**96.8**	96.3	93.6	91.3	89.9	92.0
SUV	**96.3**	97.0	95.5	91.7	91.5	92.0
Truck	**92.0**	95.	90.6	86.5	86.8	86.7
Van	**93.5**	96.2	92.7	90.4	87.7	90.9
Fairbanks						
Car	**90.7**	91.9	86.3	90.7	91.1	93.6
SUV	**94.7**	93.2	90.2	92.4	90.5	96.2
Truck	**93.2**	87.8	78.2	83.5	85.4	87.8
Van	**97.7**	96.7	88.9	86.7	91.6	92.4
Juneau						
Car	**86.8**	89.0	88.4	91.1	88.5	91.3
SUV	**85.8**	88.1	93.3	91.1	91.0	92.2
Truck	**67.5**	74.7	83.8	77.9	81.9	85.0
Van	**86.6**	85.0	92.4	80.8	83.0	90.9
Kenai						
Car	**87.0**	97.1	91.3	92.0	86.4	81.1
SUV	**87.6**	96.9	93.6	93.3	85.0	87.6
Truck	**80.5**	96.3	86.8	87.3	75.7	79.2
Van	**91.2**	96.8	91.8	92.2	82.8	85.9
Matanuska-Susitna						
Car	**85.0**	92.1	98.2	93.7	95.1	85.1
SUV	**87.5**	94	98.7	94.7	96.5	84.4
Truck	**82.3**	88.9	96.6	91.9	93.5	78.9
Van	**89.5**	97.2	97.1	94.0	95.6	89.5

Cell Phone Use

Observers were asked to record driver cell phone use. For the 2021 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 2021 5.99% of drivers were observed using a cell phone, which is up from a 5.2% observed rate in 2019. Driver cell phone use observed during the Alaska OPUS between 2012 and 2021 is shown in Table 5.

Table 5: Statewide Driver Cell Phone Use, 2012-2021

	2021	2019	2018	2017	2016	2015	2014	2013	2012
Cell Phone Use	**5.99%**	5.20%	6.9%	5.1%	7.4%	3.6%	5.4%	7.0%	6.5%

Summary

This observational study assessed 2021 driver and front row outboard passenger seat belt use in Alaska. A total of 53,638 vehicles were observed during the 2021 study period. Seat belt use was recorded for drivers and front seat outboard passengers in cars, trucks, SUVs and vans. There were 66,777 occupants observed, excluding unknowns (*n* = 28), and the results of this study found that 91.7% of Alaska drivers and passengers were using a seat belt during the study period.

Appendix A

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: **2021**

Statewide Seat Belt Use Rate: **91.7**%

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.
- Dr. 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 .

_____ _____

Signature Date

Tammy Kramer

Printed name of signing official

Appendix B

Borough	Site Type	Site	Road Type	Date Obeserved	Sample Weight	Number of Drivers	Number of Front Passengers	Number of Occupants Belted	Number of Occupants Unbelted	Number of Occupants with unknown belt use
ANCHORAGE	Primary	1	Original	7/24/21	1	301	204	487	18	0
ANCHORAGE	Primary	2	Original	7/24/21	1.28316	32	12	44	0	0
ANCHORAGE	Primary	3	Original	7/27/21	1	170	51	211	10	0
ANCHORAGE	Primary	4	Original	7/27/21	1.00564	260	86	334	12	0
ANCHORAGE	Primary	5	Original	7/28/21	1.13459	147	27	167	7	0
ANCHORAGE	Primary	6	Original	7/24/21	1.24754	305	163	456	12	0
ANCHORAGE	Primary	7	Original	7/24/21	1.28316	63	12	71	4	0
ANCHORAGE	Primary	8	Original	7/27/21	1.13459	255	64	305	13	1
ANCHORAGE	Primary	9	Original	7/27/21	1	590	86	631	45	0
ANCHORAGE	Primary	10	Original	7/24/21	1.00564	68	45	110	3	0
ANCHORAGE	Primary	11	Original	7/28/21	1	393	77	447	23	0
ANCHORAGE	Primary	12	Original	7/21/21	1.13815	388	49	391	46	0
ANCHORAGE	Primary	13	Original	7/20/21	1.45046	371	98	434	34	1
ANCHORAGE	Primary	14	Original	7/20/21	4.65958	444	95	504	34	1
ANCHORAGE	Primary	15	Original	7/24/21	6.95813	28	10	36	2	0
ANCHORAGE	Primary	16	Original	7/20/21	1.34433	180	35	187	28	0
ANCHORAGE	Primary	17	Original	7/20/21	3.35857	259	55	290	24	0
ANCHORAGE	Primary	18	Original	7/21/21	2.8014	316	92	369	38	1
ANCHORAGE	Primary	19	Original	7/21/21	2.61665	421	81	457	45	0
ANCHORAGE	Primary	20	Original	7/22/21	2.78188	301	76	351	26	0
ANCHORAGE	Primary	21	Original	7/28/21	1.81465	503	81	556	28	0
ANCHORAGE	Primary	22	Original	7/27/21	5.58828	570	142	668	44	0
ANCHORAGE	Primary	23	Original	7/28/21	1.60919	398	49	417	30	0
ANCHORAGE	Primary	24	Original	7/26/21	2.35789	441	126	517	50	0
ANCHORAGE	Primary	25	Original	7/26/21	10.2772	264	48	292	20	0
ANCHORAGE	Primary	26	Original	7/22/21	4.15422	284	32	296	20	0
ANCHORAGE	Primary	27	Original	7/22/21	4.85114	147	25	159	13	0
ANCHORAGE	Primary	28	Original	7/26/21	2.55968	212	45	245	12	0
ANCHORAGE	Primary	29	Original	7/26/21	4.05567	335	62	374	23	0
ANCHORAGE	Primary	30	Original	7/26/21	3.72176	219	43	245	17	0
ANCHORAGE	Primary	31	Original	7/21/21	39.9849	65	12	66	11	0
ANCHORAGE	Primary	32	Original	7/21/21	1.44662	400	89	434	54	1
ANCHORAGE	Primary	33	Original	7/21/21	2.04682	368	79	407	40	0
ANCHORAGE	Primary	34	Original	8/9/21	3.44058	88	5	81	12	0
ANCHORAGE	Primary	35	Original	7/20/21	1.63346	282	65	317	28	2
ANCHORAGE	Primary	36	Original	7/20/21	3.55429	445	92	492	41	4
ANCHORAGE	Primary	37	Original	7/20/21	1.04839	481	89	526	42	2
ANCHORAGE	Primary	38	Original	7/20/21	1	517	98	584	31	0
ANCHORAGE	Primary	39	Original	8/9/21	1.02424	307	61	342	26	0
ANCHORAGE	Primary	40	Original	8/9/21	1.07796	226	50	268	8	0
ANCHORAGE	Primary	41	Original	8/9/21	2.11184	260	37	288	7	2

ANCHORAGE	Primary	42	Original	8/16/21	4.02246	256	94	341	9	0
ANCHORAGE	Primary	43	Original	8/16/21	4.1792	305	65	364	6	0
ANCHORAGE	Primary	44	Original	8/16/21	4.28209	254	72	319	7	0
ANCHORAGE	Primary	45	Original	7/21/21	4.23425	197	40	217	20	0
ANCHORAGE	Primary	46	Original	7/22/21	4.26402	164	37	183	18	0
ANCHORAGE	Primary	47	Original	7/22/21	2.82463	190	44	221	13	0
ANCHORAGE	Primary	48	Original	7/22/21	5.82568	199	35	212	21	1
ANCHORAGE	Primary	49	Original	7/21/21	2.19349	287	29	299	17	0
ANCHORAGE	Primary	50	Original	7/24/21	3.25875	179	86	261	4	0
ANCHORAGE	Primary	51	Original	7/28/21	1.47225	302	82	382	2	0
ANCHORAGE	Primary	52	Original	7/15/21	1.11244	326	77	392	8	3
ANCHORAGE	Primary	53	Original	7/19/21	1.91444	360	113	459	12	2
ANCHORAGE	Primary	54	Original	7/19/21	1.09637	377	95	426	46	0
ANCHORAGE	Primary	55	Original	7/19/21	1.49267	341	82	406	17	0
ANCHORAGE	Primary	56	Original	7/19/21	1	290	80	340	29	1
ANCHORAGE	Primary	57	Original	7/26/21	1.13207	158	18	174	2	0
ANCHORAGE	Primary	58	Original	7/27/21	1.89334	271	64	318	17	0
ANCHORAGE	Primary	59	Original	7/26/21	1.66697	185	33	203	15	0
ANCHORAGE	Primary	60	Original	7/27/21	1.51133	492	144	612	24	0
ANCHORAGE	Primary	61	Original	7/19/21	15.4037	412	102	495	18	1
ANCHORAGE	Primary	62	Original	7/19/21	118.908	416	102	501	16	1
ANCHORAGE	Primary	63	Original	7/28/21	2.79963	243	38	278	3	0
ANCHORAGE	Primary	64	Original	7/27/21	8.68301	153	40	189	4	0
ANCHORAGE	Primary	65	Original	7/27/21	2.62182	142	38	179	1	0
ANCHORAGE	Primary	66	Original	7/28/21	4.17702	179	21	196	4	0
ANCHORAGE	Primary	67	Original	8/16/21	3.80378	298	31	321	8	0
ANCHORAGE	Primary	68	Original	8/16/21	1.49697	191	55	245	1	0
ANCHORAGE	Primary	69	Original	8/16/21	3.54402	214	29	239	4	0
ANCHORAGE	Primary	70	Original	7/27/21	5.88751	379	85	434	30	0
ANCHORAGE	Primary	71	Original	7/27/21	1.79255	180	49	220	9	0
ANCHORAGE	Primary	72	Original	7/27/21	2.21746	123	27	147	3	0
ANCHORAGE	Primary	73	Original	7/24/21	1.49944	191	86	257	20	0
ANCHORAGE	Primary	74	Original	7/24/21	1.47517	175	33	203	5	0
ANCHORAGE	Primary	75	Original	7/24/21	5.98023	197	80	275	2	0
ANCHORAGE	Primary	76	Original	7/24/21	14.1658	185	66	247	4	0
ANCHORAGE	Primary	77	Original	7/24/21	7.05591	158	46	201	3	0
ANCHORAGE	Primary	78	Original	7/27/21	14.4596	200	61	242	19	0
ANCHORAGE	Primary	79	Original	7/27/21	6.9034	116	32	142	6	0
ANCHORAGE	Primary	80	Original	7/27/21	5.32289	179	27	202	4	0
ANCHORAGE	Primary	81	Original	7/22/21	3.59974	278	72	342	8	0
ANCHORAGE	Primary	82	Original	7/22/21	1.85615	201	53	240	14	0
ANCHORAGE	Primary	83	Original	8/9/21	2.71459	248	43	277	14	0
ANCHORAGE	Primary	84	Original	8/16/21	3.62366	241	74	300	15	0
ANCHORAGE	Primary	85	Original	8/16/21	1.86969	263	71	322	12	0
ANCHORAGE	Primary	86	Original	8/9/21	1.14777	180	55	227	8	0

ANCHORAGE	Primary	87	Original	8/9/21	1.44618	168	55	221	2	0
ANCHORAGE	Primary	88	Original	8/9/21	6.45747	157	39	185	11	0
ANCHORAGE	Primary	89	Original	7/24/21	1	230	108	336	2	0
ANCHORAGE	Primary	90	Original	7/22/21	1	126	35	153	8	0
ANCHORAGE	Primary	91	Original	7/22/21	1	223	45	256	12	0
ANCHORAGE	Primary	92	Original	7/22/21	1	155	41	181	15	0
ANCHORAGE	Primary	93	Original	7/22/21	1	168	44	203	9	0
ANCHORAGE	Primary	94	Original	7/22/21	1	215	60	267	8	0
ANCHORAGE	Primary	95	Original	7/23/21	1	227	49	271	5	0
ANCHORAGE	Primary	96	Original	7/23/21	1	0	0	0	0	0
ANCHORAGE	Primary	97	Original	7/23/21	1	157	44	195	6	0
ANCHORAGE	Primary	98	Original	7/23/21	1	140	44	166	18	0
ANCHORAGE	Primary	99	Original	7/20/21	1	167	52	201	18	0
ANCHORAGE	Primary	100	Original	7/20/21	1	72	23	87	8	0
ANCHORAGE	Primary	101	Original	7/20/21	1	104	40	121	23	0
ANCHORAGE	Primary	102	Original	7/20/21	1	23	10	30	3	0
ANCHORAGE	Primary	103	Original	7/20/21	1	24	10	28	6	0
ANCHORAGE	Primary	104	Original	7/23/21	1.46058	133	29	160	2	0
ANCHORAGE	Primary	105	Original	7/20/21	3.79927	171	50	210	11	0
ANCHORAGE	Primary	106	Original	7/23/21	3.32473	109	28	135	2	0
ANCHORAGE	Primary	107	Original	7/23/21	1.46058	130	35	162	3	0
ANCHORAGE	Primary	108	Original	7/20/21	68.5252	68	19	80	7	0
ANCHORAGE	Primary	109	Original	7/20/21	273.859	24	10	31	3	0
ANCHORAGE	Second ar	110	Original	7/28/21	48.0199	31	9	35	5	0
ANCHORAGE	Second ar	111	Original	7/22/21	51.2057	273	44	295	21	1
ANCHORAGE	Second ar	112	Original	7/22/21	8.92629	127	12	132	7	0
ANCHORAGE	Second ar	113	Original	7/26/21	9.52082	132	38	156	14	0
ANCHORAGE	Second ar	114	Original	7/22/21	4.72846	177	49	204	22	0
ANCHORAGE	Second ar	115	Original	7/19/21	7.92844	130	20	141	8	1
ANCHORAGE	Second ar	116	Original	7/27/21	51.4238	0	0	0	0	0
ANCHORAGE	Second ar	117	Original	7/24/21	24.4446	143	48	185	6	0
ANCHORAGE	Local	118	Original	7/23/21	8.50579	144	42	186	0	0
FAIRBANKS	Primary	119	Original	7/24/21	34.2528	116	24	132	8	0
FAIRBANKS	Primary	120	Original	7/24/21	32.5071	420	113	494	39	0
FAIRBANKS	Primary	121	Original	7/23/21	4.54416	465	114	507	72	0
FAIRBANKS	Primary	122	Original	7/24/21	4.07428	105	27	120	12	0
FAIRBANKS	Primary	123	Original	7/23/21	1.30123	152	25	158	19	0
FAIRBANKS	Primary	124	Original	7/26/21	2.46618	279	38	297	20	0
FAIRBANKS	Primary	125	Original	7/20/21	1.94178	6	0	6	0	0

FAIRBANKS	Primary	126	Original	7/20/21	1.40764	84	14	91	7	0
FAIRBANKS	Primary	127	Original	7/26/21	2.35006	167	29	188	8	0
FAIRBANKS	Primary	128	Original	7/20/21	48.4515	97	19	110	6	0
FAIRBANKS	Primary	129	Original	7/26/21	23.4417	363	54	397	20	0
FAIRBANKS	Primary	130	Original	7/26/21	2.59543	461	34	464	31	0
FAIRBANKS	Primary	131	Original	7/26/21	5.84345	222	33	242	13	0
FAIRBANKS	Primary	132	Original	7/22/21	4.03765	207	18	209	16	0
FAIRBANKS	Primary	133	Original	7/22/21	6.58907	218	38	242	14	0
FAIRBANKS	Primary	134	Original	7/22/21	4.53199	337	48	364	21	0
FAIRBANKS	Primary	135	Original	7/26/21	4.31775	379	51	408	22	0
FAIRBANKS	Primary	136	Original	7/22/21	1.7776	185	30	201	14	0
FAIRBANKS	Primary	137	Original	7/22/21	12.9227	198	39	213	24	0
FAIRBANKS	Primary	138	Original	7/24/21	1.84179	273	73	338	8	0
FAIRBANKS	Primary	139	Original	7/23/21	3.5603	304	103	387	20	0
FAIRBANKS	Primary	140	Original	7/23/21	40.5054	221	62	273	10	0
FAIRBANKS	Primary	141	Original	7/21/21	3.55204	437	122	550	9	0
FAIRBANKS	Primary	142	Original	7/21/21	4.50687	65	4	68	1	0
FAIRBANKS	Primary	143	Original	7/23/21	5.23506	296	62	332	26	0
FAIRBANKS	Primary	144	Original	7/24/21	5.09844	381	98	446	33	0
FAIRBANKS	Primary	145	Original	7/21/21	1.66607	63	13	69	7	0
FAIRBANKS	Primary	146	Original	7/21/21	1.88362	139	34	165	8	0
FAIRBANKS	Primary	147	Original	7/21/21	1	141	52	190	3	0
FAIRBANKS	Primary	148	Original	7/21/21	1	261	54	308	6	1
FAIRBANKS	Primary	149	Original	7/22/21	1.02629	137	10	143	4	0
FAIRBANKS	Primary	150	Original	7/22/21	1.51925	347	50	379	18	0
FAIRBANKS	Second ar	151	Original	7/24/21	6.64668	100	28	121	7	0
FAIRBANKS	Second ar	152	Original	7/23/21	2.52895	147	24	147	24	0
FAIRBANKS	Second ar	153	Original	7/23/21	1	87	9	87	9	0
FAIRBANKS	Second ar	154	Original	7/24/21	4.14293	306	82	364	24	0
FAIRBANKS	Second ar	155	Original	7/23/21	2.99834	346	90	386	50	0
FAIRBANKS	Second ar	156	Original	7/20/21	18.1013	32	3	32	3	0
FAIRBANKS	Second ar	157	Original	7/20/21	4.56723	110	22	121	11	0
FAIRBANKS	Second ar	158	Original	7/26/21	4.92896	350	41	359	32	0
FAIRBANKS	Second ar	159	Original	7/22/21	79.0101	89	18	99	8	0
FAIRBANKS	Second ar	160	Original	7/21/21	19.123	67	3	56	14	0
FAIRBANKS	Local	161	Original	7/20/21	21.5508	13	0	10	3	0
FAIRBANKS	Local	162	Original	7/20/21	8.00984	62	12	70	4	0
JUNEAU	Primary	163	Original	8/6/21	1.93753	204	37	210	31	0

JUNEAU	Primary	164	Original	8/6/21	1.10181	226	27	226	27	0
JUNEAU	Primary	165	Original	8/6/21	1.37972	109	12	104	17	0
JUNEAU	Primary	166	Original	8/5/21	1.19266	196	43	195	44	0
JUNEAU	Primary	167	Original	8/5/21	2.66002	192	36	195	33	0
JUNEAU	Primary	168	Original	8/2/21	6.06213	143	26	135	34	0
JUNEAU	Primary	169	Original	8/5/21	6.17348	101	28	108	21	0
JUNEAU	Second ar	170	Original	8/6/21	25.3936	115	38	119	34	0
JUNEAU	Second ar	171	Original	8/6/21	10.4525	108	21	112	17	0
JUNEAU	Local	172	Original	8/5/21	20.8564	231	63	239	55	0
KENAI	Primary	173	Original	8/9/21	1.6896	144	78	193	29	0
KENAI	Primary	174	Original	8/9/21	4.22104	228	126	307	46	1
KENAI	Primary	175	Original	8/9/21	1	185	80	226	39	0
KENAI	Primary	176	Original	8/9/21	1.2388	255	137	338	54	0
KENAI	Primary	177	Original	8/9/21	2.1283	240	89	280	49	0
KENAI	Primary	178	Original	8/5/21	1.43172	210	36	214	32	0
KENAI	Primary	179	Original	8/5/21	2.02212	105	23	112	16	0
KENAI	Primary	180	Original	8/10/21	1.79958	393	108	434	67	0
KENAI	Primary	181	Original	8/10/21	1.60787	182	34	198	18	0
KENAI	Primary	182	Original	8/6/21	1.17595	50	21	58	13	0
KENAI	Primary	183	Original	8/6/21	1.88607	99	53	132	20	0
KENAI	Primary	184	Original	8/6/21	4.51665	167	78	218	27	0
KENAI	Primary	185	Original	8/6/21	1.16809	214	118	298	34	0
KENAI	Primary	186	Original	8/6/21	3.32989	177	76	193	60	0
KENAI	Primary	187	Original	8/6/21	1.66585	134	82	193	23	0
KENAI	Primary	188	Original	8/6/21	2.06089	243	99	265	77	0
KENAI	Primary	189	Original	8/10/21	1.17648	395	110	461	44	0
KENAI	Primary	190	Original	8/10/21	1.97135	344	80	384	40	0
KENAI	Primary	191	Original	8/10/21	3.48254	376	98	430	44	0
KENAI	Primary	192	Original	8/5/21	1	354	121	405	70	0
KENAI	Primary	193	Original	8/5/21	2.26174	304	104	348	60	0
KENAI	Primary	194	Original	8/5/21	1.89541	332	105	357	80	0
KENAI	Primary	195	Original	8/5/21	1.10995	278	88	313	53	0
KENAI	Primary	196	Original	8/10/21	1.80358	317	88	354	51	0
KENAI	Primary	197	Original	8/4/21	1.63744	73	32	85	20	0
KENAI	Primary	198	Original	8/4/21	1.23477	31	22	40	13	0
KENAI	Primary	199	Original	8/4/21	1	95	55	134	16	0
KENAI	Primary	200	Original	8/5/21	6.7876	331	109	384	56	0
KENAI	Primary	201	Original	8/4/21	1.40588	18	15	27	6	0
KENAI	Second ar	202	Original	8/6/21	8.31831	274	95	311	58	0
KENAI	Second ar	203	Original	8/10/21	3.23493	174	47	190	31	0
KENAI	Second ar	204	Original	8/10/21	2.34936	158	54	181	31	0

KENAI	Secondar	205	Original	8/9/21	15.125	34	0	29	5	0
KENAI	Secondar	206	Original	8/4/21	1.73882	60	39	85	14	0
KENAI	Secondar	207	Original	8/4/21	23.5991	77	27	77	27	0
KENAI	Local	208	Original	8/6/21	2.93666	65	29	79	15	0
MATANUSKA	Primary	209	Original	8/21/21	1	69	22	74	17	0
MATANUSKA	Primary	210	Original	8/20/21	1	177	31	204	4	0
MATANUSKA	Primary	211	Original	8/19/21	5.02799	192	52	210	34	0
MATANUSKA	Primary	212	Original	8/19/21	5.85752	110	18	117	11	0
MATANUSKA	Primary	213	Original	8/19/21	1.25248	189	41	208	22	0
MATANUSKA	Primary	214	Original	8/21/21	4.63086	171	56	221	6	0
MATANUSKA	Primary	215	Original	8/21/21	3.76881	187	53	234	6	0
MATANUSKA	Primary	216	Original	8/21/21	20.3467	210	46	235	21	0
MATANUSKA	Primary	217	Original	8/19/21	3.22942	293	60	303	50	0
MATANUSKA	Primary	218	Original	8/19/21	2.14551	204	35	216	23	0
MATANUSKA	Primary	219	Original	8/19/21	1.20221	216	11	213	14	0
MATANUSKA	Primary	220	Original	8/20/21	1.27282	154	5	140	19	0
MATANUSKA	Primary	221	Original	8/20/21	1	112	34	122	24	0
MATANUSKA	Primary	222	Original	8/22/21	1	286	79	357	8	0
MATANUSKA	Primary	223	Original	8/20/21	1	287	72	339	20	0
MATANUSKA	Primary	224	Original	8/10/21	1.44548	193	20	184	29	0
MATANUSKA	Primary	225	Original	8/1//21	1.32785	307	118	354	71	0
MATANUSKA	Primary	226	Original	8/23/21	1.65865	217	18	218	17	0
MATANUSKA	Primary	227	Original	8/17/21	1	193	44	220	17	0
MATANUSKA	Primary	228	Original	8/23/21	1	40	3	36	7	0
MATANUSKA	Primary	229	Original	8/23/21	1	165	33	176	22	0
MATANUSKA	Primary	230	Original	8/23/21	4.13864	162	24	163	23	0
MATANUSKA	Primary	231	Original	8/17/21	3.73124	275	48	279	44	0
MATANUSKA	Primary	232	Original	8/18/21	2.02334	261	99	288	72	0
MATANUSKA	Primary	233	Original	8/23/21	1.25382	177	53	217	13	0
MATANUSKA	Primary	234	Original	8/17/21	3.98522	278	75	311	42	0
MATANUSKA	Primary	235	Original	8/18/21	3.72764	160	36	149	47	0
MATANUSKA	Primary	236	Original	8/19/21	3.98532	255	53	294	14	0
MATANUSKA	Primary	237	Original	8/17/21	3.95776	172	47	187	32	0
MATANUSKA	Primary	238	Original	8/17/21	1.84292	281	87	340	28	0
MATANUSKA	Primary	239	Original	8/17/21	1	248	61	283	26	0
MATANUSKA	Primary	240	Original	8/17/21	2.43815	216	63	262	17	0
MATANUSKA	Primary	241	Original	8/18/21	4.18241	99	17	99	17	0
MATANUSKA	Primary	242	Original	8/18/21	39.0669	212	50	229	33	0
MATANUSKA	Primary	243	Original	8/18/21	4.63848	113	11	111	13	0
MATANUSKA	Primary	244	Original	8/18/21	2.91802	162	31	160	33	0
MATANUSKA	Primary	245	Original	8/20/21	5.33593	270	35	292	13	0
MATANUSKA	Primary	246	Original	8/20/21	5.68422	172	19	164	27	0

MATANUSKA	Second ar	247	Original	8/21/21	3.2272	84	5	87	2	0
MATANUSKA	Second ar	248	Original	8/21/21	4.22831	18	8	25	1	0
MATANUSKA	Second ar	249	Original	8/21/21	4.88716	241	89	307	23	0
MATANUSKA	Second ar	250	Original	8/21/21	12.4805	78	28	96	10	0
MATANUSKA	Second ar	251	Original	8/19/21	30.208	0	0	0	0	0
MATANUSKA	Second ar	252	Original	8/23/21	15.3224	23	3	24	2	0
MATANUSKA	Second ar	253	Original	8/18/21	10.5333	110	5	99	16	0
MATANUSKA	Second ar	254	Original	8/20/21	4.54837	354	38	342	50	0
MATANUSKA	Second ar	255	Original	8/23/21	74.5808	8	1	6	3	0
MATANUSKA	Local	256	Original	8/23/21	173.554	134	12	114	32	0
Total						53,638	13,139	61,547	5,202	28

Standard Error of Statewide Belt Use Rate .82%

Standard error may not exceed 1.29%

Nonresponse rate for the survey variable seat belt use .1%

Nonresponse rate as provided in § 1340.9(f)

Filename: 2021 Alaska OPUS Report 10-14.docx
Directory: /Users/marcia/Documents/AHSO NOPUS/NOPUS 2021
Template: C:\Users\lfousek\AppData\Roaming\Microsoft\Templates\ABtemplate.dotx
Title:
Subject:
Author: Lisa Fousek
Keywords:
Comments:
Creation Date: 10/14/21 8:57:00 AM
Change Number: 2
Last Saved On: 10/14/21 8:57:00 AM
Last Saved By: Marcialynn Howell
Total Editing Time: 1 Minute
Last Printed On: 10/14/21 8:57:00 AM
As of Last Complete Printing
Number of Pages: 17
Number of Words: 2,627 (approx.)
Number of Characters: 15,002 (approx.)