

CALIFORNIA TRAFFIC SAFETY SURVEY 2020

DATA ANALYSIS AND COMPARISON WITH 2010-2019 SURVEY DATA RESULTS

Conducted on Behalf of

The California Office of Traffic Safety The Safe Transportation Research and Education Center University of California, Berkeley

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SUMMARY OF FINDINGS

Biggest Safety Concern (Q2)

"Distracted Driving because of TEXTING" was the biggest safety concern for 75.1% of surveyed drivers of the online panel, followed by "Speeding and Aggressive Driving" and "Drunk Driving", mentioned by 72.5% and 67.9% respectively (Table Q2_2).

Most Serious Distraction (Q3)

Consistent with prior data collection waves, in 2020 "Texting While Driving" was reported as the most serious distraction by 68.5% of respondents (Table Q3_2).

Using Electronic Device While Driving (Q4)

The response trends of whether respondents use an electronic device while driving in 2020 are opposite from prior waves of data collection, where the majority of 2020 drivers report that they "Rarely" or "Never" use an electronic device (Table Q4).

Driving Mistake Due to Cell Phone Use (Q5)

Drivers in 2020 were significantly less likely to report ever having made a driving mistake while using a cell phone (Table Q5).

Near Crash Due to Talking/Texting (Q6)

While more than half of the respondents in 2020 report having been hit or nearly hit by another driving talking or texting on a cell phone, there was a significant reduction in the number since 2019 (Table Q6).

Recall of Traffic Safety Outreach Campaigns (Q8a-Q8d)

Similar to prior waves of data collection, in 2020 the outreach campaign with the highest recall rate was "Drive Sober or Get Pulled Over", with more than half of the surveyed drivers having seen the campaign (Table Q8a-Q8e).

Campaign	Recall Rate 2020	Recall Rate 2019	Recall Rate 2018	Recall Rate 2017
"Go Safely California"	30.2%	16.4%		
"Drive Sober or Get Pulled Over"	50.3%	34.8%	42.5%	38.4%
"Pedestrians Don't Have Armor"	16.7%	16.3%	13.5%	17.1%
"DUI Doesn't Just Mean Booze"	41.5%	30.1%	43.0%	29.3%
"Put Your Phone Down, Just Drive"	30.4%	17.1%	29.4%	

Intoxicated Driving (Q9)

While the number of surveyed drivers who have driven after having too much to drink was similar in 2019 and 2020, the number who do not to drink at all showed a significant decrease in 2020 (Table Q9_1).

Use of Ride Services (Q10)

In 2020, almost half of respondents say they have "Never" used a taxi or other ride share service when drinking in the last six months, a significant increase from 2019. The difference between 2019 and 2020 could be attributable to the external factor of the stay home ordinance taking place during survey administration (Table Q10).

Designated Sober Driver (Q11)

2020 saw a significant increase of respondents who "Never" have had a designated sober driver in the past six months compared to 2019. This outcome could be due to the shelter-in-place order taking place during survey administration (Table Q11).

Recall of Sobriety Checkpoints (Q12)

More than half of respondents in 2020 have seen or heard about police sobriety or DUI checkpoints, a significant increase compared to 2019 (Table Q12_1).

Likelihood of Arrest for Impaired Driving (Q14)

Central California drivers believe it to be "Very likely" to get arrested for driving impaired, compared to Northern California drivers who believe it is "Somewhat Likely" or "Somewhat Unlikely" (Table Q14).

Marijuana Impairing Driving Functions (Q15)

In 2020, Central California drivers had a slightly significantly higher rate of indicating that marijuana does not impair driving functions, compared to the other regions (Table Q15).

Safety of Driving 10 MPH Over Speed Limit (Q17)

Compared to 2019, in 2020 there is a significant –increase of drivers who stated that "It Depends" whether it is safe to drive 10 miles over the speed limit on freeways (Table Q17).

Safety of Driving 5 MPH Over Speed Limit (Q18)

Central California drivers were more likely to state it is safe to drive 5 mph over the speed limit on residential streets, but overall, in 2020 drivers were significantly less likely to say it is safe (Table Q18).

Chances of Being Ticketed for Speeding (Q19)

There is a significant increase of California drivers who say they believe they are "Very Likely" or "Somewhat Likely" to be ticketed for driving over the speed limit, compared to 2019 (Table Q19).

Driverless Vehicles and Road Safety (Q20)

The number of drivers who believe driverless vehicles will make roadways safer decreased significantly in 2020 (Table Q20).

Sharing Road with Driverless Vehicle (Q21)

Drivers in 2020 were significantly more likely to be "Somewhat Uncomfortable" or "Very Uncomfortable" sharing the road with driverless vehicles (Table Q21).

Legality of Bicyclists on Roadways (Q22)

Online panel respondents were significantly –less likely to indicate that they believe it is legal for bicycles to ride on roadways when there is no bike lane, for 63.0% compared to 80.2% 2019 (Table Q22).

Sharing Road with Bicyclists (Q24)

Respondents were significantly more likely to be "Somewhat Uncomfortable" or "Very Uncomfortable" sharing the road with bicyclists when there isn't a designated bike lane (Table Q24).

OVERVIEW OF 2020 STUDY

The 2020 wave of data collection for the California Traffic Safety Study was conducted with an online panel of California drivers instead of an intercept interview, as were previous waves of data collection. This decision was made due to the COVID-19 pandemic occurring in 2020, and the need for an alternative data collection mode avoiding in-person contact between field interviewers and respondents. The survey questions and data analysis of survey items presented in this report are similar to previous waves of the survey, including survey items on traffic safety opinions and knowledge on traffic safety campaigns, distracted driving and perceptions about pedestrian and bicycle traffic interactions.

The participants for the online survey panel were obtained through Qualtrics, a commercial panel vendor utilizing multiple subcontractors, to provide a representative cross-section of pre-screened and qualified respondents. The panel was implemented anonymously and with distinct quota cell percentage ranges per age group and an equal gender distribution to match the field data collected in previous years as much as possible. Additionally, the presumed proportion of completed surveys by survey region was matched as closely as possible, although the overall number of completed surveys was higher this year than in previous years. Overall, 2,867 eligible panelists completed the online survey in 2020, while 1,298 completed intercept surveys in 2019.

SURVEY DATA ANALYSIS AND COMPARING RESULTS WITH PREVIOUS YEARS

Since 1) the survey administration differed in 2020 as compared to all previous years 2010-2019 and 2) that the COVID-19 pandemic affected transportation patterns in the State with decreased mobility, unemployment, statewide stay home policies, and more, a comparison of results between this year and previous years was challenging. Some of the survey item results show similarity between the 2020 data and previous waves and are indicative of an observable trend, while other discrepancies might be attributed more to the State's stay home order in place at the time of the online data collection.

In total, 2,867 drivers were surveyed, resulting in an overall confidence interval of +/- 1.83, at a confidence level of 95%.

The limitations in comparing between this year's and previous years' surveys may be particularly evident in that the previous years' intercept surveys included open-ended recall questions administered by field staff without offering answering options, whereas the online survey provided all answering options, which facilitated more responses. Additionally, some answers might have been affected by travel changes since the stay home order; e.g., the number of pedestrians reported to not be using crosswalks increased in 2020. This may have been due to increased numbers of pedestrians desiring to keep social distancing while walking on the streets and the necessity of going outside of the crosswalk to avoid other pedestrians. Another factor creating difficulty in comparisons among years is that some of the 2019 data were variances contrasted to all other waves of the survey, making it more difficult to draw comparisons in some responses between 2019 and 2020.

In reporting the results, statistically significant differences between 2019 and 2020 data were highlighted in the respective 2020 data column, significant differences within regions in 2020 are highlighted in the respective region column. Every effort has been made to match the sample by age, gender and geographic region, to minimize the differences.

All tables are based on valid answers provided, and excluding all reported "Don't know" and "Prefer not to answer" options. The valid percentages of responses differ for each question due to the number of valid answers given to a particular question. The total number of answers for each question is reflected in the total number of completed surveys, which is listed in the tables. Some of the questions were also skipped over based on answers provided (to skip over questions which do not apply) and the number of responses per question vary accordingly. Due to rounding to one decimal point, some percentages presented do not always add up to the exact value of 100.0%.

Data Weights

The comparison of results with previous years' data refers to the comparable longitudinal field surveys conducted with California vehicle drivers since 2010. The sample size of the 2020 online survey was almost double the sample size of the 2019 intercept data collection. The results of the 2020 online survey were weighted to the California adult population by age and gender to be comparable to the previous waves of data, and to provide more representativeness to the entire State of California due to the limitations of some of the comparisons that could not be made to previous waves of data collection (see Table Weights by Age and Gender).

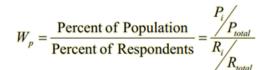
	Census	Data*	Surve	ey Data	We	ights	Weig Survey	
Age Range	Male	Female	Male	Female	Male	Female	Male	Female
18-24	51.5%	48.5%	83.6%	16.4%	0.62	2.96	44.4%	55.6%
25-34	51.6%	48.4%	69.0%	31.0%	0.75	1.56	48.5%	51.5%
35-44	50.5%	49.5%	69.8%	30.2%	0.72	1.64	45.3%	54.7%
45-54	49.8%	50.2%	33.5%	66.5%	1.49	0.75	45.7%	54.3%
55-70	48.2%	51.8%	7.1%	92.9%	6.79	0.56	44.4%	55.6%
71 +	43.2%	56.8%	8.2%	91.8%	5.27	0.62	36.1%	63.9%
Total	49.3%	50.7%	50.3%	49.7%	0.98	1.02	44.2%	55.8%

Table Weights by Age and Gender.	Census data, survey results and	d proportional weight calculation

*Source: Census.gov: ACS DEMOGRAPHIC AND HOUSING ESTIMATES 2019 American Community Survey

The population weights were calculated based on the formula described in the Table Weights Formula.

Table Weights Formula. Proportional weight calculation formula



Analysis Notes

For this survey effort, a convenience sample of a commercially available panel was chosen to avoid any contact of staff with potential survey respondents. The analysis below reflects the answers of a larger sample, albeit recruited and managed by a commercial vendor and a survey implementation online, compared to in-person interviews in the previous waves. Given the difference in the survey format and administration, some of the differences in findings are attributed to those mode differences.

Having the advantage of over a decade of collected in-person data allows for a comparison of different sampling modes and ultimately the effects of the survey administration: online versus in-person. Some of the changes in reported behavior since 2019 are therefore not tested for significance, as they would not reflect the change in behavior, but rather the effects of the data collection mode.

- For multiple choice questions, a respondent could give more than one answer. The listed "Percent of cases" column is calculated from the total number respondents who answered a question. The resulting percentage is more than 100.0% and reflects the percentage of respondents (not the percentage of answers given, which would add up to 100.0%).
- All findings are based on the weighted data with weights applied as outlined in Table Weights by Age and Gender.
- The significances outlined refer to a two-tailed probability with the resulting value of "z" and a *p* value indicating the difference between the listed (and assumed independent) proportion of drivers interviewed per wave. Where applicable, the significant differences calculated were adjusted for pairwise comparisons using the Bonferroni correction. Significant findings in table cells are highlighted in orange. Significant findings or highest response rates in tables mentioned in the text are highlighted.
- The survey version used was identical to the 2019 survey instrument.

Region Variable

All California counties were included in the online survey, and segmented into three regions: "Northern California," "Central California," and "Southern California," similar to previous waves (Table R1). Of all 2,867 completed online surveys, 2,273 were from counties included in the 2019 data collection, 595 were from additional counties grouped into the three regions.

Northern Calif	fornia			
Alameda	El Dorado	Mendocino	Sacramento	Solano
Alpine	Glenn	Modoc	San Francisco	Sonoma
Amador	Humboldt	Mono	San Mateo	Sutter
Butte	Inyo	Napa	Santa Clara	Tehama
Colusa	Lake	Nevada	Shasta	Trinity
Contra Costa	Lassen	Placer	Sierra	Yolo
Del Norte	Marin	Plumas	Siskiyou	Yuba
Central Califor	rnia		Southern Califo	ornia
Central Califor Calaveras	rnia Merced	Santa Cruz	Southern Califo Imperial	ornia Ventura
		Santa Cruz Stanislaus		
Calaveras	Merced		Imperial	
Calaveras Fresno	Merced Monterey	Stanislaus	Imperial Los Angeles	
Calaveras Fresno Kern	Merced Monterey San Benito	Stanislaus Tulare Tuolumne	Imperial Los Angeles Orange	Ventura
Calaveras Fresno Kern Kings	Merced Monterey San Benito San Joaquin	Stanislaus Tulare Tuolumne	Imperial Los Angeles Orange Riverside	Ventura

Table R1. Three geographic region definition by county

Table R2 shows the number of completed surveys by county.

County	Northern California	Total	County	Central California	Total	County	Southern California	Total
Alameda	122	4.3%	Calaveras	5	0.2%	Imperial	5	0.2%
Alpine	11	0.4%	Fresno	92	3.2%	Los Angeles	859	30.0%
Amador	7	0.2%	Kern	49	1.7%	Orange	223	7.8%
Butte	21	0.7%	Kings	4	0.1%	Riverside	120	4.2%
Contra Costa	71	2.5%	Madera	7	0.2%	San Bernardino	142	5.0%
Del Norte	9	0.3%	Mariposa	2	0.1%	San Diego	243	8.5%
El Dorado	15	0.5%	Merced	8	0.3%	Ventura	46	1.6%
Glenn	3	0.1%	Monterey	26	0.9%	Total	1,638	
Humboldt	7	0.2%	San Benito	5	0.2%	% of total	57.1%	
Lake	5	0.2%	San Joaquin	41	1.4%			
Marin	13	0.5%	San Luis Obispo	14	0.5%			
Mendocino	5	0.2%	Santa Barbara	23	0.8%			
Napa	7	0.2%	Santa Cruz	23	0.8%			
Nevada	6	0.2%	Stanislaus	40	1.4%			
Placer	28	1.0%	Tulare	31	1.1%			
Sacramento	118	4.1%	Tuolumne	3	0.1%			
San Mateo	62	2.2%	Total	373				
San Francisco	100	3.5%	% of total	13.0%				
Santa Clara	115	4.0%						
Shasta	16	0.6%						
Siskiyou	4	0.1%						
Solano	31	1.1%						
Sonoma	43	1.5%						
Sutter	4	0.1%						
Yolo	18	0.6%						
All other	15	0.1%						
Total	856							
% of total	29.9%							

Table R2. Completed surveys by county

The number of completed surveys by region, both weighted and unweighted, is outlined in Table R3. The majority of completes (1,638) are from Southern California drivers, comparable to the California population distribution as well as the 2019 intercept data distribution of completed surveys.

Region	Number of Completes	Percent	Weighted Percent	2019 Percent
Northern California	856	29.9%	29.5%	32.6%
Central California	373	13.0%	12.7%	12.6%
Southern California	1,638	57.1%	57.8%	54.9%
Total	2,867	100.0%	100.0%	100.0%

Table R3. Completed surveys by region and year

Respondent Demographics

The respondents' age and gender distribution by region is shown in Table D1, together with the comparable distribution of the 2019 age ranges.

Gender	Age Group	Northern California	Central California	Southern California	Total	2019 Total
Male	18-24	12.2%	11.2%	9.9%	10.7%	11.9%
	25-34	22.8%	26.0%	22.6%	23.1%	25.0%
	35-44	21.8%	21.3%	24.8%	23.6%	25.6%
	45-54	25.8%	26.6%	24.5%	25.1%	19.8%
	55-70	13.4%	11.8%	15.7%	14.6%	14.8%
	71 or older	4.0%	3.0%	2.4%	2.9%	3.0%
Total		100.0%	100.0%	100.0%	100.0%	100.0%
Female	18-24	9.2%	9.2%	10.9%	10.1%	17.1%
	25-34	19.6%	22.6%	22.6%	21.7%	25.3%
	35-44	24.3%	21.0%	23.2%	23.3%	19.3%
	45-54	25.0%	26.7%	24.9%	25.2%	19.9%
	55-70	16.4%	19.5%	14.6%	15.9%	15.5%
	71 or older	5.4%	1.0%	3.8%	3.9%	2.9%
Total		100.0%	100.0%	100.0%	100.0%	100.0%

Table D1. Age and gender distribution by geographic regions and year comparison

The distribution by region and gender is shown in Table D2.

Table D2. Gender distribution by geographic regions

Gender	Northern California	Central California	Southern California	Total
Male	47.6%	46.7%	52.2%	50.1%
Female	52.4%	53.3%	47.8%	49.9%
Total	100.0%	100.0%	100.0%	100.0%

Safety Concerns (Q2)

The biggest safety concern on California roadways was a multiple-choice question and the answer categories provided, and coded open-ended responses (highlighted in blue) are outlined in Table Q2_1.

Drunk Driving	Congestion on Roadways
Speeding/Aggressive Driving	Construction on Roadways
Distracted Driving because of TALKING	Unlicensed/Uninsured Drivers
Distracted Driving because of TEXTING	Trash/Debris
Internal Car Distractions (passengers, eating,	Not Signaling Lane Change/Merging
grooming, adjusting radio/stereo)	Vehicles
Bad Road Surfaces	Running Red Lights & Stop Signs
Not Wearing Seatbelts	Infrastructure Issues
Drugged Driving	Perceived Driving Skills
Other (un-coded)	
Personal Behavior	

Table Q2 1. "In your opinion, what are the biggest safety problems on California roadways?"

Overall, the survey respondents provided 10,770 responses to the question on the biggest safety problems on California roadways in 2020. The most frequently mentioned response was "Distracted Driving because of Texting" which accounted for 19.8% of all answers given, and stated by 75.1% of all respondents. This was followed by "Speeding and Aggressive Driving," with 19.1% of all answers and mentioned by 72.5% of all drivers surveyed. The third most frequently mentioned response was "Drunk Driving", with 17.9% of answers and mentioned by 67.9% of respondents (Table Q2_2).

Table Q2_2. Frequencies of Q2 by percent of answers and percent of drivers

Q2 all answers combined	Count	% of Answers	% of Drivers
Distracted Driving because of TEXTING	2,128	19.8%	75.1%
Speeding/Aggressive Driving	2,054	19.1%	72.5%
Drunk Driving	1,924	17.9%	67.9%
Drugged Driving	1,143	10.6%	40.3%
Bad Road Surfaces	1,134	10.5%	40.0%
Distracted Driving because of TALKING	969	9.0%	34.2%
Internal Car Distractions (passengers, eating, grooming, adjusting radio/stereo)	673	6.3%	23.8%
Not Wearing Seatbelts	666	6.2%	23.5%
Other	42	0.4%	1.3%
Unlicensed/Uninsured Drivers	20	0.2%	0.7%
Congestion on Roadways	8	0.1%	0.3%
Not Signaling Lane Change/Merging Vehicles	3	0.0%	0.1%
Perceived Driving Skills	3	0.0%	0.1%
Infrastructure Issues	2	0.0%	0.1%
Total	10,770	100.0%	380.1%

The most frequently mentioned responses to the biggest safety problem on California roadways compared with previous waves of data collection are shown in Table Q2_3 with the three highest percentage answers highlighted. As with all previous waves of data collection, "Distracted Driving because of Texting" and "Speeding and Aggressive Driving," are still the most frequently mentioned safety problems. For the 2020 data collection wave "Drugged Driving" increased substantially in awareness.

Q2 all answers combined	% answers 2020	% answers 2019	% answers 2018	% answers 2017	% answers 2016	% answers 2015	% answers 2014	% answers 2013	% answers 2012	% answers 2011	% answers 2010
Distracted Driving because of Texting	19.8%	19.4%	16.9%	14.7%	18.2%	16.1%	21.2%	20.3%	17.1%	18.5%	9.9%
Speeding/Aggressive Driving	19.1%	20.3%	19.4%	27.7%	19.2%	18.1%	20.2%	14.3%	15.6%	17.6%	18.2%
Drunk Driving	17.9%	9.2%	6.5%	22.9%	5.6%	6.6%	6.2%	5.7%	4.3%	12.6%	7.9%
Drugged Driving	10.6%	1.8%	1.3%	1.5%							
Bad Road Surfaces	10.5%	11.0%	15.3%	3.8%	12.2%	13.0%	10.4%	9.2%	11.4%	11.6%	11.6%
Distracted Driving because of Talking	9.0%	15.7%	14.2%	11.9%	13.8%	11.7%	18.0%	16.0%	18.3%	20.3%	15.8%
All other responses combined	13.1%	22.6%	26.4%	17.5%	31.0%	34.5%	24.0%	34.5%	33.3%	19.4%	36.6%
Total responses	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q2_3. Frequencies of top six responses to Q2 by percent of answers provided and by year of data collection

Safety Concerns (Q2) by California Region

The biggest safety concern by California region is shown in Table Q2_4, with the most frequently mentioned response in Northern California being "Speeding/Aggressive Driving" while "Distracted Driving because of Texting" was the biggest safety in both Central and Southern California.

Q2 by Region	Northern California	Central California	Southern California	
Distracted Driving because of TEXTING	19.3%	19.9%	19.9%	
Speeding/Aggressive Driving	19.7%	17.4%	19.2%	
Drunk Driving	17.3%	17.9%	18.1%	
Bad Road Surfaces	11.3%	10.9%	10.1%	
Drugged Driving	10.7%	11.2%	10.4%	
All other responses combined	21.7%	22.7%	22.3%	
Total	100.0%	100.0%	100.0%	

Table Q2_4. Frequencies of top five safety concerns by Region

Safety Concerns (Q2) by Age

The cross-tabulation of the five most frequently mentioned safety concerns by age is shown in Table Q2_5, with all age groups sharing a comparable pattern.

Q2 by Age	18-24	25-34	35-44	45-54	55-70	71 or older
Drunk Driving	21.0%	19.9%	17.1%	17.1%	16.0%	16.2%
Speeding/Aggressive Driving	19.0%	19.5%	19.4%	19.4%	17.5%	19.6%
Drugged Driving	11.5%	10.3%	10.1%	10.4%	11.6%	10.0%
Distracted Driving because of TEXTING	18.9%	18.8%	19.4%	20.9%	20.5%	19.1%
Bad Road Surfaces	9.0%	10.6%	11.1%	11.6%	9.1%	10.2%
All other responses combined	20.6%	20.9%	22.9%	20.6%	25.3%	24.9%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q2_5. Cross-tabulation of top five safety concerns by age group

Most Serious Distraction (Q3): Coding Categories

All respondents were subsequently asked to identify the single most serious distraction for vehicle drivers on California roadways. Table Q3_1 shows the answer choices, with the created coding categories based on open-ended answers highlighted in blue.

Table Q3_1. "In your opinion, what is the MOST serious distraction for drivers" with additional code	categories
--	------------

Cell Phone Conversations (hand-held or hands-free)	Drunk Drivers
Texting While Driving	Drivers Distracted / Inattentive
Passengers in Car	Construction on Roadways
Eating While Driving	
Car Crashes/Vehicle Issues	
GPS/Navigation Systems	
Roadside Billboards]
Other]

Most Serious Distraction (Q3) by Survey Wave

According to surveyed drivers, the most serious distraction on California roadways in 2020 was "Texting While Driving", similar to prior waves of data collection, going back to 2013 (highest percentage answer highlighted, Table Q3_2).

Q3	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014	Total 2013	Total 2012	Total 2011	Total 2010
Texting While Driving	68.5%	46.7%	44.5%	50.8%	44.1%	39.0%	51.8%	47.9%	37.2%	27.6%	12.7%
Cell Phone Conversations	17.4%	23.1%	32.2%	31.9%	33.5%	22.2%	29.5%	33.4%	42.8%	56.0%	61.9%
Car Crashes/Vehicle Issues	6.4%	6.2%	5.3%	1.4%	1.7%	1.6%	1.3%	1.4%	2.9%	1.9%	1.9%
GPS/Navigation Systems	1.7%	2.5%	0.8%	1.3%	1.7%	0.7%	0.9%	0.4%	0.5%	0.5%	0.2%
Eating While Driving	1.7%	2.4%	0.5%	1.3%	0.6%	1.5%	1.8%	0.5%	0.8%	1.2%	1.9%
Roadside Billboards	1.5%	2.3%	1.7%	1.2%	1.5%	2.6%	0.9%	1.8%	1.9%	1.3%	2.1%
Passengers in Car	1.2%	4.1%	2.3%	1.7%	0.6%	1.2%	2.0%	1.5%	1.4%	1.8%	3.3%
All other responses combined	1.6%	12.7%	12.7%	10.4%	16.3%	31.2%	11.8%	13.1%	12.5%	9.7%	16.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Most Serious Distraction (Q3) by Region

"Texting While Driving," was also consistently indicated as the most serious distraction among all three California regions (Table Q3_3).

Q3 by region	Northern California	Central California	Southern California
Texting While Driving	64.6%	69.9%	70.1%
Cell Phone Conversations	18.9%	15.9%	16.9%
Car Crashes/Vehicle Issues	8.3%	5.8%	5.6%
Other	1.7%	0.3%	0.7%
Roadside Billboards	0.6%	3.9%	1.5%
GPS/Navigation Systems	2.3%	1.7%	1.5%
Passengers in Car	1.8%	0.8%	1.0%
Drunk Drivers	0.6%	0.0%	0.2%
Construction on Roadways	0.0%	0.3%	0.1%
Eating While Driving	1.3%	1.1%	2.1%
Drivers Distracted / Inattentive	0.0%	0.3%	0.4%
Total	100.0%	100.0%	100.0%

Table Q3_3. Frequencies of Q3 by California region

Using electronic device while driving (Q4) by Region and Wave

About a third of respondents (33.7%) "Regularly" or "Sometimes" used an electronic wireless device while driving in the past 30 days, while another two-thirds "Rarely" or "Never" did. The differences between California regions are not significant (Table Q4), but the answers provided in the online survey are significantly different and the opposite trend of the reported frequencies from 2019 (p<0.01).

Q4 by Region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018
Dogularly	120	52	256	428	458	443
Regularly	14.3%	14.4%	15.6%	15.1%	35.4%	32.0%
Comotimos	159	61	308	528	380	295
Sometimes	19.0%	16.9%	18.7%	18.6%	29.4%	21.3%
Dorohy	252	104	516	872	268	298
Rarely	30.0%	28.8%	31.4%	30.7%	20.7%	21.5%
Nover	308	144	563	1,015	188	348
Never	36.7%	39.9%	34.3%	35.7%	14.5%	25.1%
T I	839	361	1,643	2,843	1,294	1,384
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q4. "How often in the past	30 days have you used an electro	onic wireless device, like a cell phone
when driving?" by region and ye	r	

Driving Mistake Due to Cell Phone Use (Q5) by Wave

Having ever made a driving mistake while on a cell phone is shown in Table Q5, with 44.7% of drivers having made a mistake due to cell phone use. In 2019, the majority of 51.3% of drivers reported having made a driving mistake when using a cell phone, the 6.6% reported decrease in 2020 is significant(p<0.01).

Q5 by	Total										
year	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Yes	1,263	665	634	670	550	744	858	866	827	802	766
res	44.7%	51.3%	46.0%	49.3%	43.9%	39.4%	47.1%	45.0%	44.6%	45.8%	46.5%
No	1,561	632	743	690	704	1,143	965	1,060	1,027	951	883
No	55.3%	48.7%	54.0%	50.7%	56.1%	60.6%	52.9%	55.0%	55.4%	54.2%	53.5%
Total	2,824	1,297	1,377	1,360	1,254	1,887	1,823	1,926	1,854	1,753	1,649
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q5. "Have you EVER made a driving mistake while talking on a cell phone?" by year

Near Crash Due to Other Driver Talking/Texting (Q6) by Wave

Asked if they ever have been hit or nearly hit by another driver who was talking or texting on a cell phone, more than half of all drivers (51.7%) said "Yes" (Table Q6). The 6.2% decrease since 2019 is significant at *p*<0.01.

Q6 by year	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014	Total 2013	Total 2012	Total 2011	Total 2010
Vac	1,466	739	852	827	685	1,117	1,098	421	1,067	1,038	912
Yes	51.7%	57.9%	62.3%	61.0%	54.6%	59.6%	61.2%	59.5%	60.1%	60.1%	57.5%
Ne	1,371	538	515	528	570	756	697	286	708	689	673
No	48.3%	42.1	37.7%	39.0%	45.4%	40.4%	38.8%	40.5%	39.9%	39.9%	42.5%
Total	2,837	1,277	1,367	1,355	1,255	1,873	1,795	707	1,775	1,727	1,585
TULAI	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q6. "Have you ever been hit or nearly hit by a driver who was talking or texting on a cell phone?" by year

Likelihood of Being Ticketed for Hand-Held Phone Use or Texting (Q7) by Wave

Drivers' perception of the likelihood of being ticketed for using a hand-held cell phone is shown in Table Q7. Overall, 51.8% responded they believe it is "Very Likely" or "Somewhat Likely" to be ticketed, while 34.5% believe it is "Somewhat Unlikely" or "Very Unlikely". The online respondents in 2020 believed it to be more likely to receive a ticket for using a phone while driving, compared to respondents in 2019 (*p*<0.01).

07 huwaar	Total								
Q7 by year	2020	2019	2018	2017	2016	2015	2014	2013	2012
Very Likely	679	269	314	287	272	444	424	493	368
Very Likely	23.9%	21.0%	23.0%	21.2%	21.5%	23.4%	23.4%	26.3%	20.1%
Somewhat	792	288	344	277	265	459	416	599	570
Likely	27.9%	22.4%	25.1%	20.4%	21.0%	24.2%	23.0%	31.9%	31.2%
Neither Likely	391	228	168	197	150	218	210	131	154
or Unlikely	13.8%	17.8%	12.3%	14.5%	11.9%	11.5%	11.6%	7.0%	8.4%
Somewhat	425	261	250	262	256	361	376	306	356
Unlikely	15.0%	20.3%	18.3%	19.3%	20.3%	19.1%	20.8%	16.3%	19.5%
Vondunlikoly	555	238	292	333	320	412	385	349	379
Very Unlikely	19.5%	18.5%	21.3%	24.6%	25.3%	21.8%	21.3%	18.6%	20.7%
Total	2,841	1,284	1,395	1,356	1,263	1,894	1,811	1,878	1,827
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q7. "What do you think is the likelihood of being ticketed for hand-held cell phone use or texting?" by year

Recall of "Go Safely California" (Q8a) by Region and Wave

Overall, 30.2% of respondents recalled the "Go Safely California" campaign, with a similar distribution across the three California regions, but a significant 13.8% increase in recall since 2019 (*p*<0.01, Table Q8a).

Table Q8a. "In the past 6 months, do you recall: Go Safely California?" by region and year

Q8a by region	Northern California	Central California	Southern California	Total 2020	Total 2019
Yes	199	102	443	744	207
165	27.7%	32.1%	31.1%	30.2%	16.4%
No	519	216	981	1,716	1052
No	72.3%	67.9%	68.9%	69.8%	83.6%
Total	718	318	1,424	2,460	1,259
Total	100.0%	100.0%	100.0%	100.0%	100.0%

Recall of "Drive Sober or Get Pulled Over" (Q8b) by Region and Wave

The "Drive Sober or Get Pulled Over" campaign was recalled by over half (50.3%) of all respondents, with a comparable recollection by region (Table Q8b). Since 2019, the recall has increased by 15.5% (*p*<0.01)

O ² h hy region	Northern	Central	Southern	Total	Total	Total	Total	Total
Q8b by region	California	California	California	2020	2019	2018	2017	2016
Yes	380	177	749	1,306	439	577	518	515
res	50.3%	52.5%	49.7%	50.3%	34.8%	42.5%	38.4%	40.8%
No	375	160	757	1,292	821	781	830	747
NO	49.7%	47.5%	50.3%	49.7%	65.2%	57.5%	61.6%	59.2%
Total	755	337	1,506	2,598	1,260	1,358	1,348	1,262
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q8b. "In the past 6 months, do you recall: Drive Sober or Get Pulled Over?" by region and year

Recall of "Pedestrians Don't Have Armor" Campaign (Q8c) by Region and Wave

The campaign "Pedestrians Don't Have Armor" shows a slight difference in recall by region, with a mildly higher recall in Northern California counties (p<0.05, Table Q8c.), but no difference to the 2019 data.

Q8c by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017
Voc	149	57	233	439	206	183	229
Yes	19.5%	17.5%	15.1%	16.7%	16.3%	13.5%	17.1%
No	614	269	1,313	2,196	1,055	1,172	1,113
NO	80.5%	82.5%	84.9%	83.3%	83.7%	86.5%	82.9%
Total	763	326	1,546	2,635	1,261	1,355	1,342
IULAI	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q8c. "In the past 6 months, do you recall: "Pedestrians Don't Have Armor?" by region and year

Recall of "DUI Doesn't Just Mean Booze" (Q8d) by Region and Wave

The comparison of the campaign recall "DUI Doesn't Just Mean Booze" showed a mild difference between regions, but a significant 11.4% increase in recall since 2019 (*p*<0.01, Table Q8d).

Q8d by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017
Vec	337	157	597	1,091	376	585	394
Yes	43.3% 46.4%		39.6%	41.5%	30.1%	43.0%	29.3%
No	442	181	912	1,535	874	775	950
No	56.7%	53.6%	60.4%	58.5%	69.9%	57.0%	70.7%
Total	779	338	1,509	2,626	1,250	1,360	1,344
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q8d. "In the past 6 months, do you recall: DUI Doesn't Just Mean Booze" by region and year

Recall of "Put Your Phone Down, Just Drive" (Q8e) by Region and Wave

The recall is comparable among all regions for the "Put your Phone Down, Just Drive" campaign, but shows a 13.3% increase since the 2019 field data collection (p<0.01, Table Q8e).

Q8e by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018
Vac	218	96	486	800	213	398
Yes	27.9%	27.9% 29.0%		30.4%	17.1%	29.4%
No	564	235	1031	1,830	1,035	954
No	72.1%	71.0%	68.0%	69.6%	82.9%	70.6%
Tatal	782	331	1,517	2,630	1,248	1,352
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q8e. "In the past 6 months, do you recall: Put Your Phone Down, Just Drive" by region and year

Safety Campaign Source of Recall (Q8a-e)

The recall of the surveyed safety campaigns was followed up with a question on where respondents had seen or heard about it, and the results shown for all five campaigns is outlined in Table Q8a_e, with the highest percentage of answers by campaign highlighted. The overall most frequently mentioned response was "Road Sign", which included bill boards and changeable message signs, followed by "TV" and "Facebook".

Q8a-e	Go Safely California	Drive Sober or Get Pulled Over	Pedestrians Don't Have Armor	DUI Doesn't Just Mean Booze	Put Your Phone Down, Just Drive
Road Sign	25.2%	40.6%	23.5%	41.3%	29.5%
TV	19.8%	21.2%	17.3%	22.7%	17.1%
Facebook	19.6%	11.8%	21.0%	12.3%	17.0%
Twitter	10.3%	7.7%	13.6%	7.5%	11.4%
Instagram	14.5%	9.9%	14.7%	8.1%	12.0%
Web	10.6%	8.9%	9.8%	8.1%	13.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q8a_e Follow-Up: "Where did you See or Hear...?" respective campaign source

Intoxicated Driving (Q9) by Wave

Comparable with 2019 data, 7.8% of respondents noted that they drove after having too much to drink in the past six months, while 24.0% do not drink at all, which is a significant 9.5% reduction compared to 2019 (p<0.01, Table Q9_1), but overall comparable with previous years of field intercept data collected. The lower number of non-drinkers might be a side effect of the stay-at-home order in place at the time of the survey.

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Q9 by year	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Q9 by year	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Vac	223	95	88	137	83	138	162	119	102	120	99
Yes	7.8%	7.3%	6.3%	10.1%	6.6%	7.2%	8.8%	6.2%	5.5%	6.7%	6.0%
No	1,945	766	980	918	816	1,264	1,258	1,452	1,263	1,267	1,214
No	68.2%	59.2%	70.5%	67.4%	64.5%	65.6%	68.3%	75.3%	68.6%	70.7%	73.5%
I do not	685	433	322	307	367	525	422	358	475	405	338
drink at all	24.0%	33.5%	23.2%	22.5%	29.0%	27.2%	22.9%	18.6%	25.8%	22.6%	20.5%
Total	2,853	1,294	1,390	1,362	1,266	1,927	1,842	1,929	1,840	1,792	1,671
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q9_1. "In the past 6 months, did you drive when you thought you had too much alcohol to drive safely?" by year

Intoxicated Driving (Q9) by Region

The comparison of intoxicated driving by region shows no significant differences (Table Q9_2).

Q9 by region	Northern California	Central California	Southern California
Yes	63	28	132
res	7.5%	7.7%	8.0%
No	584	230	1,131
NO	69.4%	63.5%	68.5%
l do not	194	104	387
drink at all	23.1%	28.7%	23.5%
Total	841	362	1,650
TOLAI	100.0%	100.0%	100.0%

Table Q9_2. "In the past 6 months, did you drive when you thought you had too much alcohol to drive safely?" by region

Use of Alternative Ride Services When Drinking (Q10) by Region and Wave

There are no significant differences among survey respondents on using alternative ride services after drinking alcohol, with 39.3% having "Always" or "Sometimes" used a taxi or alternative ride service (Table Q10). Overall, fewer respondents in 2020 used ride services when drinking compared to 2019. In 2020 almost half of respondents "Never" did (p<0.01), which is probably more attributable to the shelter-in-place ordinance taking place during survey administration, as an external factor.

Q10 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014
Alwaye	137	47	273	457	316	330	278	187	319	150
Always	21.2%	18.6%	21.7%	21.2%	37.1%	31.2%	26.4%	20.8%	22.9%	10.6%
Comotimos	102	44	243	389	217	240	188	162	177	179
Sometimes	15.8%	17.4%	19.3%	18.1%	25.5%	22.7%	17.8%	18.0%	12.7%	12.7%
Derek	85	28	159	272	88	115	147	111	184	189
Rarely	13.2%	11.1%	12.7%	12.6%	10.3%	10.9%	13.9%	12.3%	13.2%	13.4%
Nerver	321	134	581	1,036	230	372	442	439	710	894
Never	49.8%	53.0%	46.3%	48.1%	27.0%	35.2%	41.9%	48.8%	51.1%	63.3%
Total	645 100.0%	253 100.0%	1,256 100.0%	2,154 100.0%	851 100.0%	1,057 100.0%	1,055 100.0%	899 100.0%	1,390 100.0%	1,412 100.0%

Designated Sober Driver (QII) by Region and Wave

There are no regional differences in the number of designated drivers appointed by respondents in the past six months, with almost a third (32.8%) "Always" choosing or being a designated driver. There is a higher number of drivers who "Never" have a designated driver compared to the 2019 field data, and while that number is an 13.6% increase, significant at p<0.01 and comparable to 2016/2017 percentages, this can also be the result of the shelter-in-place (Table Q11).

Q11 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014
Always	214	88	409	711	322	355	249	223	585	525
Always	33.2%	33.8%	32.4%	32.8%	38.5%	33.6%	23.6%	24.9%	42.2%	28.5%
Constitutos	120	44	236	400	213	248	222	184	226	338
Sometimes	18.6%	16.9%	18.7%	18.5%	25.4%	23.5%	21.1%	20.6%	16.3%	18.3%
Darahu	72	24	144	240	101	135	170	140	154	192
Rarely	11.1%	9.2%	11.4%	11.1%	12.1%	12.8%	16.1%	15.6%	11.1%	10.4%
Never	239	104	472	815	201	317	413	348	421	790
Never	37.1%	40.0%	37.4%	37.6%	24.0%	30.0%	39.2%	38.9%	30.4%	42.8%
Total	645	260	1,261	2,166	837	1,055	1,054	895	1,386	1,845
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q11. "In the past 6 months, how often have you had a designated sober driver, including yourself?" by region and year

Recall of Sobriety/DUI Checkpoints in Past 6 Months (Q12) by Wave

More than half of respondents (55.5%) have seen or heard something about the police setting up sobriety or DUI checkpoints in the past six months. This is a significant increase compared to 2019 (15.4%, p< 0.01, Table Q12_1).

<u>oy year</u>											
Q12 by year	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014	Total 2013	Total 2012	Total 2011	Total 2010
Yes	1,415	489	593	706	735	1,094	1,327	993	1,263	1,300	1,006
res	55.5%	40.1%	45.7%	52.9%	57.9%	56.8%	71.3%	51.6%	67.8%	72.9%	60.6%
No	1,135	730	704	629	535	831	535	931	599	483	653
No	44.5%	59.9%	54.3%	47.1%	42.1%	43.2%	28.7%	48.4%	32.2%	27.1%	39.4%
	2,550	1,219	1,297	1,335	1,270	1,925	1,862	1,924	1,862	1,783	1,659
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q12_1. "In the past 6 months, have you seen/heard anything about police setting up sobriety/DUI checkpoints to catch drunk drivers?" by year

Recall of Sobriety/DUI Checkpoints in Past 6 Months (Q12) by Region

The recall of sobriety/DUI checkpoints by region shows some significant differences with respondents in Central California reporting a significant higher recall than both other regions (p<0.01, Table Q12_2)

Table Q12_2. "In the past 6 months,	<u>, have you seen/heard anythir</u>	ng about police setting up sobriet	ty/DUI checkpoints to catch drunk drivers?"
by region			

<u>y region</u>			
Q12 by region	Northern California	Central California	Southern California
Yes	394	209	811
res	53.5%	64.1%	54.6%
No	343	117	674
No	46.5%	35.9%	45.4%
Total	737	326	1,485
Total	100.0%	100.0%	100.0%

Awareness of DUI (Q13) by Region and Wave

The majority of respondents, 90.3%, were aware that one can get a DUI for driving under the influence of legal as well as illegal drugs, without significant differences between region and without change compared to the 2019 data (Table Q13).

Q13 by region	Northern	Central	Southern	Total	Total	Total	Total
QT2 by legion	California	California	California	2020	2019	2018	2017
Voc	757	330	1,485	2,572	1,132	1,263	1,209
Yes	89.8%	91.2%	90.4%	90.3%	90.0%	93.8%	91.2%
No	86	32	157	275	126	83	116
No	10.2%	8.8%	9.6%	9.7%	10.0%	6.2%	8.8%
Total	843	362	1,642	2,847	1,258	1,346	1,325
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q13. "Did you know that you can get a DUI if you drive under the influence of legal or illegal drugs" by region and year
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Likelihood of Getting Arrested for Driving Impaired (Q14) by Region and Wave

The perception of the likelihood of getting arrested for driving impaired shows a significant difference by California region. Drivers in Central California stated more frequently, that it is "Very Likely" to get arrested for driving impaired, compared to Northern California drivers, who more frequently believe this to be "Somewhat Likely" or "Somewhat Unlikely", compared to the other regions (Table Q14, p<0.00). In comparison to 2019, the perception of it being "Very Likely" of getting arrested for driving impaired decreased significantly by 6.8% (p<0.00).

O14 by region	Northern	Central	Southern	Total						
Q14 by region	California	California	California	2020	2019	2018	2017	2016	2015	2014
) (am a bhaile	274	179	646	1,099	571	569	519	519	643	808
Very Likely	32.5%	49.9%	39.3%	38.6%	45.4%	42.5%	38.7%	41.3%	34.7%	44.5%
Company has tilled	393	126	658	1,177	394	454	446	377	625	515
Somewhat Likely	46.6%	35.1%	40.0%	41.4%	31.3%	33.9%	33.2%	30.0%	33.7%	28.4%
Somewhat	143	39	217	299	213	206	243	264	373	316
Unlikely	16.9%	10.9%	13.2%	14.0%	16.9%	15.4%	18.1%	21.0%	20.1%	17.4%
Vorutinikolu	34	15	122	171	81	109	134	97	214	175
Very Unlikely	4.0%	4.2%	7.4%	6.0%	6.4%	8.1%	10.0%	7.7%	11.5%	9.6%
- I	844	359	1,643	2,846	1,259	1,338	1,342	1,257	1,855	1,814
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q14. "How likely is it for someone to get arrested if they drive impaired?" by region and year

Perception of Marijuana Impairing Driving Functions (Q15) by Region and Wave

There are no significant differences in the perception of marijuana use impairing driving functions among California drivers compared to 2019, but a slightly higher percentage of drivers in Central California who do not believe that it does (*p*<0.05, Table Q15).

Q15 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018
Yes	662	287	1,322	2,271	1,019	1,048
165	78.5%	79.3%	81.1%	80.1%	80.0%	77.3%
No	59	38	112	209	125	98
No	7.0%	10.5%	6.9%	7.4%	9.8%	7.2%
It Donondo	122	37	197	356	130	210
It Depends	14.5%	10.2%	12.1%	12.6%	10.2%	15.5%
T I	843	362	1,631	2,836	1,274	1,356
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q15. "Do you think marijuana can impair driving related functions, such as reaction time, distance perception, lane tracking, coordination and balance?" by region and year

Perception of DUI of Drugs, Legal and Illegal (Q16) by Region and Wave

Over half of all California drivers believe that driving under the influence of drugs is "A Very Big Problem", comparable to 2019 data (Table Q16).

Q16 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015
A Very Big	443	200	843	1,486	617	664	715	717	980
Problem	52.8%	55.4%	51.3%	52.3%	49.6%	49.3%	53.5%	58.1%	54.7%
Somewhat of a	296	121	589	1,006	353	494	461	381	571
Problem	35.3%	33.5%	35.9%	35.4%	28.4%	36.7%	34.5%	30.9%	31.9%
A Small	87	29	171	287	237	140	122	113	193
Problem	10.4%	8.0%	10.4%	10.1%	19.1%	10.4%	9.1%	9.1%	10.8%
Not a Problem	13	11	39	63	37	48	39	24	48
at all	1.5%	3.0%	2.4%	2.2%	3.0%	3.6%	2.9%	1.9%	2.7%
Total	839 100.0%	361 100.0%	1,642 100.0%	2,842 100.0%	1,244 100.0%	1,346 100.0%	1,337 100.0%	1,235 100.0%	1,792 100.0%

Safety of Driving 10 Miles Over the Speed Limit on Freeways (Q17) by Region and Wave

There are no significant differences between the California regions on the perception of whether it is safe to drive 10 miles over the speed limit on freeways. There is, however, a significant 23.8% increase of drivers who believe that "It Depends" and a significant 23.6% fewer drivers who believe it is safe compared to 2019(*p*<0.01, Table Q17).

Q17 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014
Yes	296	130	597	1,023	764	788	879	755	1,110	1,104
165	35.2%	36.0%	36.2%	35.9%	59.5%	56.9%	65.0%	59.5%	57.5%	59.3%
No	220	108	414	742	337	266	253	275	481	449
No	26.1%	29.9%	25.1%	26.0%	26.2%	19.2%	18.7%	21.7%	24.9%	24.1%
It Donondo	326	123	638	1,087	183	332	220	238	341	309
It Depends	38.7%	34.1%	38.7%	38.1%	14.3%	24.0%	16.3%	18.8%	17.7%	16.6%
Total	842	361	1,649	2,852	1,284	1,386	1,352	1,268	1,932	1,862
TOtal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q17. "Do you think it's safe to drive 10 miles over the speed limit on freeways?" by region and year

Safety of Driving 5 Miles Over the Speed Limit on Residential Streets (Q18) by Region and Wave

Asked whether it is safe to drive five miles over the speed limit on residential streets, drivers in Central California more frequently disagreed (p<0.05). Compared to the results of 2019, a significantly fewer percentage of drivers believe it is safe and a significant increase of drivers believe that "It depends" (p<0.01, Table Q18).

Q18 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014
Vac	223	81	425	729	506	460	545	465	750	577
Yes	26.6%	22.4%	25.8%	25.6%	39.5%	33.2%	40.3%	36.6%	38.8%	31.0%
No	438	211	827	1,476	639	701	598	585	905	978
No	52.3%	58.3%	50.2%	51.8%	49.8%	50.7%	44.3%	46.1%	46.8%	52.6%
It dopondo	177	70	396	643	137	223	208	220	279	306
It depends	21.1%	19.3%	24.0%	22.6%	10.7%	16.1%	15.4%	17.3%	14.4%	16.4%
Total	838	362	1,648	2,848	1,282	1,384	1,351	1,270	1,934	1,861
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q18. "Do you think it's safe to drive five miles over the speed limit on residential streets?" by region and year

Chance of Being Ticketed for Driving Over Speed Limit (Q19) by Region and Wave

The chances of getting a ticket for driving over the speed limit is perceived similarly among all three regions, with over two-thirds of drivers (67.8%) believing it is "Very Likely" or "Somewhat Likely". In comparison to the 2019 data, this is a 7.2% significant increase (*p*<0.00, Table Q19).

Q19 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017	Total 2016	Total 2015	Total 2014
Vorulikolu	156	91	367	614	345	267	290	267	398	413
Very Likely	18.7%	25.3%	22.3%	21.6%	27.7%	20.1%	21.6%	21.3%	21.5%	22.5%
Somewhat	401	164	750	1,315	410	552	484	460	741	691
Likely	48.0%	45.6%	45.5%	46.2%	32.9%	41.6%	36.0%	36.7%	40.0%	37.6%
Somewhat	217	79	421	717	354	321	334	341	467	484
Unlikely	26.2%	21.9%	25.5%	25.2%	28.4%	24.2%	24.9%	27.2%	25.2%	26.4%
Voruluplikohu	62	26	110	198	138	186	236	186	245	248
Very Unlikely	7.4%	7.2%	6.7%	7.0%	11.1%	14.0%	17.6%	14.8%	13.2%	13.5%
Total	836 100.0%	360 100.0%	1,648 100.0%	2,844 100.0%	1,247 100.0%	1,326 100.0%	1,344 100.0%	1,254 100.0%	1,851 100.0%	1,836 100.0%

Perception of driverless vehicles and road safety (Q20) by Region and Wave

Asked whether driverless vehicles will make roads safer, less than a quarter of respondents (24.0%) believed they will. In 2019 over a third of respondents (35.9%) believed that driverless cars make roads safer, which decreased significantly by 11.9% in 2020. However, the 2020 results are similar to the 2017/2018 findings (*p*<0.01, Table Q20).

Table Q20. "Do you think driverless vehicles will make our roadways safer?" by region and year

Q20 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018	Total 2017
Yes	202	73	408	683	444	319	351
163	24.1%	20.3%	24.8%	24.0%	35.9%	23.8%	27.7%
No	377	197	736	1,310	534	642	614
NO	45.0%	54.9%	44.7%	46.1%	43.2%	47.9%	48.5%
It Donondo	259	89	501	849	258	380	301
It Depends	30.9%	24.8%	30.5%	29.9%	20.9%	28.3%	23.8%
Total	838	359	1,645	2,842	1,236	1,341	1,266
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sharing roads with driverless vehicles (Q21) by Region and Wave

A total of 57.4% of drivers are "Somewhat Uncomfortable" or "Very Uncomfortable" sharing the road with driverless vehicles, compared to 46.1% of drivers in 2019. The 11.3% increase is significant (*p*<0.01, Table Q21). There are no significant differences between California regions in the perception about driverless cars.

021 by region	Northern	Central	Southern	Total	Total	Total	Total
Q21 by region	California	California	California	2020	2019	Total 2018 234 17.7% 318 24.0% 350 26.4% 423 31.9% 1,325 100.0%	2017
Very Comfortable	110	51	220	381	246	234	269
very connortable	13.2%	14.2%	13.4%	13.4%	20.2%	2018 2 234 2 17.7% 2 318 2 318 2 350 2 423 4 31.9% 3	21.0%
Somewhat Comfortable	267	88	475	830	409	318	287
Somewhat Connortable	31.9%	24.4%	28.9%	29.2%	33.6% 24.0% 22	22.4%	
Somewhat Uncomfortable	266	109	517	892	323	350	279
Somewhat Oncomfortable	31.8%	30.3%	31.4%	31.4%	26.5%	26.4%	21.6%
Vary Uncomfortable	193	112	433	738	239	423	449
Very Uncomfortable	23.1%	31.1%	26.3%	26.0%	19.6%	31.9%	35.0%
Total	836	360	1,645	2,841	1,217	1,325	1,284
	100.0%	100.0%	100.0%	100.0%	100.0%	2018 234 17.7% 318 24.0% 350 26.4% 423 31.9% 1,325	100.0%

Perception of Legality for Bikes on Roadways (Q22) by Region and Wave

Less than two-thirds of respondents (63.0%) believe it is legal for bicyclists to ride on roadways when there is no bike lane, with a comparable distribution among regions. Compared to 2019, when 80.2% of the intercept respondents believed this to be legal, the 2019 data shows a 17.2% significant reduction by the online respondents (p<0.01, Table Q22).

Table Q22. "Do you think it is legal for bicyclists to ride on roadways when there is no bike lane?" by region and year										
Q22 by	Northern	Central	Southern	Total						
region	California	California	California	2020	2019	2018	2017	2016	2015	2014

QLL NY	Rorenern	central	Southern	10101	iotai	rotai	iotai	iotai	iotai	Total
region	California	California	California	2020	2019	2018	2017	2016	2015	2014
Vac	517	207	1,040	1,764	993	984	956	838	1,260	1,204
Yes	62.9%	58.8%	63.9%	63.0%	80.2%	73.8%	72.2%	68.0%	68.6%	68.7%
No	305	145	588	1,038	245	349	369	395	577	549
No	37.1%	41.2%	36.1%	37.0%	19.8%	26.2%	27.8%	32.0%	31.4%	31.3%
Total	822	352	1,628	2,802	1,238	1,333	1,325	1,233	1,837	1,753
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Level of Comfort Sharing Road with Bicyclists with Bike Lanes (Q23) by **Region and Wave**

Combined, 72.8% of drivers are "Very Comfortable", or "Somewhat Comfortable" with sharing the road with bicyclists in bike lanes, similar to the 2019 data and among the California regions (Table Q23).

Q23 by region	Northern	Central	Southern	Total	Total	Total
Q23 by region	California	California	California	2020	2019	2018
Vary Comfortable	302	137	595	1,034	570	634
Very Comfortable	36.0%	37.7%	36.0%	36.2%	45.1%	46.3%
Somewhat	300	141	604	1,045	395	369
Comfortable	35.7%	38.8%	36.6%	36.6%	31.3%	27.0%
Somewhat	158	68	280	506	171	205
Uncomfortable	18.8%	18.7%	17.0%	17.7%	13.5%	15.0%
Very	80	17	172	269	127	160
Uncomfortable	9.5%	4.7%	10.4%	9.4%	10.1%	11.7%
Total	840	363	1,651	2,854	1,263	1,368
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q23. "How comfortable are you with sharing the road with bicyclists when there IS a designated bike lane?" by region and year

Sharing Road with Bicyclists without Bike Lane (Q24) by Region and Wave

Sharing the road with bicyclists without a bike lane by region and compared to previous waves of data collection is shown in Table Q24. A total of 61.3% of respondents were "Somewhat Uncomfortable" or "Very Uncomfortable" sharing the road with bicyclists, without a bike lane compared to 51.2% in 2019. The 10.1% increase is significant (p<0.01).

designated bike lane	?" by region	and year	-		-	
Q24 by region	Northern	Central	Southern	Total	Total	Total
Q24 by region	California	California	California	2020	2019	2018
Vary Comfortable	119	60	217	396	289	237
Very Comfortable	14.2%	16.7%	13.2%	13.9%	22.9%	17.4%
Somewhat	201	84	417	702	327	329
Comfortable	23.9%	23.3%	25.4%	24.7%	25.9%	24.2%
	9.65	100	= 4 6		224	

Table Q24. "How comfortable are you with sharing the road with bicyclists when there ISN'T	а
designated bike lane?" by region and year	

	camornia	cumonna	camornia	2020	2015	2010
Very Comfortable	119	60	217	396	289	237
very connortable	14.2%	16.7%	13.2%	13.9%	22.9%	17.4%
Somewhat	201	84	417	702	327	329
Comfortable	23.9%	23.3%	25.4%	24.7%	25.9%	24.2%
Somewhat	265	106	516	887	281	348
Uncomfortable	31.5%	29.4%	31.5%	31.2%	22.3%	25.6%
Very	255	110	490	855	364	446
Uncomfortable	30.4%	30.6%	29.9%	30.1%	28.9%	32.8%
T	840	360	1,640	2,840	1,261	1,360
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Safety Problems Experienced as Pedestrian or Bicyclist (Q25)

The safety problems respondents experienced as a pedestrian or bicyclist were coded from multiplechoices answers into the coding categories outlined in Table Q25_1, with added categories highlighted in blue.

Table Q25_1. "Think of the times you have been a pedestrian or bicyclist in the last 6 months.	What
safety problems did you experience, if any?" Coding Categories	

Distracted Drivers (cell phones)	
Cars not stopping	
Cars going too fast	
Bicyclists not stopping	
Lots of traffic	
Almost getting hit by a car	
Lack of sidewalks	
NONE	
Other	

Drivers don't see or look for pedestrians
Drivers not paying attention
Drivers stopping in the crosswalk
No bike lanes

In total, 7,736 responses were provided, and the most frequently indicated safety problem was "Cars going too fast", which accounted for 20.7% of answers and was mentioned by 56.4% of all respondents. This was followed by "Cars not stopping", mentioned by 49.5% of drivers and "Distracted driver" due to cell phone" mentioned by 44.0% of drivers (Table Q25_2).

Q25 all answers combined	Count	% of answers	% of Drivers 2020
Cars going too fast	1,598	20.7%	56.4%
Cars not stopping	1,403	18.1%	49.5%
Distracted drivers (cell phones)	1,246	16.1%	44.0%
Lack of sidewalks	858	11.1%	30.3%
Almost getting hit by car	741	9.6%%	26.1%
Lots of traffic	791	10.2%	27.9%
Bicyclists not stopping	718	9.3%	25.3%
NONE	320	4.1%	11.3%
Other	50	0.6%	1.8%
Drivers don't see or look for pedestrians	3	0.0%	0.1%
Drivers not paying attention	1	0.0%	0.0%
Drivers stopping in the crosswalk	4	0.0%	0.1%
No bike lanes	4	0.1%	0.2%
Total	7,736	100.0%	273.0%

Table Q25_2. Frequencies Q25 by percent of answers and percent of drivers

Safety Problems Experienced as Pedestrian or Bicyclist (Q25) by Region and Wave

The safety problems experienced as pedestrians or bicyclist by California region and survey year is shown in Table Q25_3, with comparable results among regions and compared to the 2019 data.

afety problems did you experience, if any?" by region and year						
Q25 by region	Northern	Central	Southern	Total	Total	Total
	California	California	California	2020	2019	2018
Cars going too fast	488	198	912	1,598	336	239
	20.9%	20.8%	20.5%	20.7%	17.7%	12.3%
Cars not stopping	442	159	802	1,403	432	336
	19.0%	16.7%	18.0%	18.1%	22.8%	17.3%
Distracted drivers (cell phones)	348	168	730	1,246	348	426
	14.9%	17.7%	16.4%	16.1%	18.4%	21.9%
Lack of sidewalks	269	124	464	858	37	52
	11.5%	13.0%	10.4%	11.1%	2.0%	2.7%
Almost getting hit by a car	219	85	437	741	197	185
	9.4%	9.0%	9.8%	9.6%	10.4%	9.5%
Lots of traffic	228	88	475	791	98	106
	9.8%	9.2%	10.7%	10.2%	5.2%	5.5%
Bicyclists not stopping	249	73	396	718	69	67
	10.7%	7.7%	8.9%	9.3%	3.6%	3.5%
NONE	71	53	196	320	308	352
	3.0%	5.6%	4.4%	4.1%	16.3%	18.1%
Other	14	3	33	50	28	101
	0.6%	0.3%	0.7%	0.6%	1.5%	5.2%
Drivers stopping in the crosswalk	0	1	3	4	10	15
	0.0%	0.1%	0.1%	0.0%	0.5%	0.8%
Drivers don't see or look	2	0	1	3	7	17
for pedestrians	0.2%	0.0%	0.0%	0.0%	0.4%	0.9%
Drivers not paying attention	0	0 0.0%	1 0.0%	1 0.0%	5 0.3%	19 1.0%
No bike lanes	2	0	2	4	3	10
	0.1%	0.0%	0.1%	0.0%	0.2%	0.5%
Total	2,333	952	4,451	7,736	1,894	1,942
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q25_3. "Think of the times you have been a pedestrian or bicyclist in the last 6 months. What safety problems did you experience, if any?" by region and year

Safety Problems Experienced as Driver around Pedestrians and Bicyclists (Q26)

The safety problems experienced around pedestrians and bicyclists as a driver is outlined in Table Q26_1, based on 8,725 responses. The most frequently mentioned answer was "Pedestrians not using crosswalk", which was given by 56.6% of all respondents.

Q26 all answers combined	Count	% of answers	% of Drivers 2020
Pedestrians not using crosswalks	1,612	18.5%	56.6%
Pedestrians stepping off curb without looking	1,453	16.7%	51.1%
Pedestrians/cyclists not being visible enough	1,143	13.1%	40.2%
Pedestrians/cyclists distracted behavior (phones, ear pods, headsets)	1,174	13.5%	41.2%
Cyclists not stopping at stop signs or traffic lights	1,385	15.9%	48.7%
Cyclists being in the road or blocking traffic	1,047	12.0%	36.8%
Lack of sidewalks or clear cross walks	652	7.5%	22.9%
None	223	2.6%	7.9%
Other	36	0.4%	1.3%
Total	8,725	100.0%	306.6%

Table Q26_1. Frequencies Q26 by percent of answers and percent of driver
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Safety Problems Experienced as Driver around Pedestrians and Bicyclists (Q26) by Region and Wave

The safety problems experienced as a driver around pedestrians and bicyclists by California region shows a comparable distribution of answers and comparable results to 2019 data, with the exception of much fewer respondents in 2020 believing that there is no problem (Table Q26_2).

nonths. What safety problems did you experience, if any?" by region and year						
Q26 by region	Northern California	Central California	Southern California	Total 2020	Total 2019	Total 2018
Pedestrians not using	473	217	922	1,612	300	294
crosswalks	18.2%	19.4%	18.4%	18.5%	15.2%	14.8%
Pedestrians stepping off curb	433	183	836	1,453	321	179
without looking	16.7%	16.4%	16.7%	16.7%	16.2%	9.0%
Cyclists not stopping at stop	465	173	747	1,385	321	179
signs or traffic lights	17.9%	15.4%	14.9%	15.9%	10.7%	10.6%
Pedestrians/cyclists distracted	355	146	672	1,174	332	264
behavior (phones, ear pods, headsets)	13.7%	13.1%	13.4%	13.5%	16.8%	13.3%
Pedestrians/cyclists not being	330	147	665	1,143	194	169
visible enough	12.7%	13.1%	13.3%	13.1%	9.8%	8.5%
Cyclists being in the road or	302	126	619	1,047	269	187
blocking traffic	11.6%	11.2%	12.4%	12.0%	13.6%	9.4%
Lack of sidewalks or clear cross	174	98	380	652	38	108
walks	6.7%	8.8%	7.6%	7.5%	1.9%	5.5%
NONE	54	27	142	223	242	356
NONE	2.1%	2.4%	2.8%	2.6%	12.2%	18.0%
Other	12	2	23	36	47	76
	0.4%	0.1%	0.5%	0.4%	2.4%	3.8%
Total	2,598	1,119	5,008	8,725	1,979	1,942
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table Q26_2. "Think of the times you have been a DRIVER around pedestrian or bicyclist in the last 6 months. What safety problems did you experience, if any?" by region and year