2011
Virginians’ Self-Reported Perceptions of and Actions Involving Targeted Safe-Driving Behaviors

Final Report

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Virginia Department of Motor Vehicles’ Highway Safety Office

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The report’s contents are the responsibility of the authors and not the Virginia Highway Safety Office or Old Dominion University.

Citation for the report:

Summary

In 2011, states were required to survey their residents to assess various attitudes and perceptions in traffic safety. Specifically, respondents were asked about seat-belt use, impaired driving, and speeding topics. Perceptions of media, perceptions of enforcement activities, and self-reported behaviors in each of these topics were measured too. Therefore, each state was mandated to assess nine main questions: each of the three topics (seat-belt use, impaired driving, and speeding) crossed by each of the three perceptions and reports (media, enforcement, and self-reported behavior). States were encouraged to add more questions as needed or relevant pending interest. Additional follow-up questions, in particular, were encouraged to go beyond the basic required questions.

Virginia’s Highway Safety Office (VHSO) wished to add two questions on distracted driving to explore its prevalence in Virginia. These questions, while not mandated, provided important data for targeting mobile phone talking and texting while driving (mobile phone use was the behavior representing distracted driving in this survey). This report summarizes the work completed in 2011.

The 2011 survey was deployed by telephone to licensed drivers in Virginia. Overall, two samples were targeted. First, a sample of 1,000 licensed drivers aged 18 and older completed the survey. This sample was distributed across Virginia proportionally by regional population levels. Therefore, more of the sample came from northern and southeastern regions of Virginia than from the southwestern areas. It was appropriately representative of the Commonwealth. A second sample was derived from licensed drivers 18 – 34 years old. This age group was a particular focus of various interventions in Virginia, most notably the *Click It or Ticket* seat-belt enforcement program. The 18 - 34 sample was drawn from those in that age category from the main sample (273 of the 1,000 were 18 – 34 years old), with an additional oversampling of 283 participants making the 18 - 34 final sample for analysis a total of 556 participants. This latter augment sample was used to make comparisons to the full sample, or the average Virginia driver.

Overall, key *statewide* findings included:

Seat-Belt Use
- The majority of respondents reported always wearing seat belts while driving (93.5%) or riding as passengers (93.1%).
- Fewer than half (43.5%) recalled law enforcement activity targeting belt use in the time period prior to the survey.
- Approximately half of the respondents (48.7%) believed the chances of getting a ticket for belt non-use was “likely” or “very likely.”

Impaired Driving
- Less than half of the respondents (44.4%) told interviewers they did not drink.
- For those who did not identify themselves as non-drinkers (and therefore were considered “drinkers” in this study), 17.8% *had* driven within two hours after drinking alcohol in the past 60 days.
- Most (≥ 70%) believed the chances of arrest after drinking and driving were at least “likely.”

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1 “Statewide” data refer to results from the sample designed to represent, proportionally, the Commonwealth’s regions. This is the “full” or \( n = 1,000 \) sample.
• Approximately half of the sample (50.9%) recalled police activities targeting impaired driving in the time period prior to the survey. However, only 24.8% recalled seeing or hearing information about designated driving programs in the same period.

Speeding
• Approximately half of the respondents (49.3%) reported at least sometimes speeding on local roads (more than 35 mph in 30 mph zone); 41.9% reported at least sometimes speeding on interstates (more than 70 mph in 65 mph zone).
• Most respondents (63.9%) believed the chances of receiving a speeding ticket were “very likely” or “likely.”
• Less than half (42.1%) recalled law enforcement activity targeting speeding in the past 30 days.

Distracted Driving
• More than half of the respondents (64.0%) “seldom” or “never” talk on mobile phones while driving; only 1.4% reported not owning a mobile phone.
• A significant majority (84.0%) said they “never” text while driving.

In the following pages, we break down these statewide results into gender and regional differences. However, readers should interpret these segregated results with caution. The survey was designed to produce representative statewide data. The sample was not constrained to represent equally gender or regional responses.

We also compare these statewide results with the augmented sample of 18-34 year old drivers. The augmented sample can be considered representative of such drivers in Virginia, as the additional sample was drawn proportionally by region. Further, the 18-34 drivers from the statewide sample, coming from all regions, were also pooled into the augment to enhance the sample size and increase the data’s reliability. Readers can make comparisons between the self reports of the “average” Virginia adult driver and self-reports of the driver group identified as being at greatest risk for traffic crashes, injuries, and fatalities.2

Additional data not presented in this report are available. Interested readers are encouraged to review Appendix A, where the complete survey and percent responses for categorical items are given.

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2 Institutional Review Board requirements prohibit the surveying of minors under age 18. While the traffic safety community acknowledges 16- and 17-year-old drivers are at greatest risk for many negative consequences, these drivers could not be included without the additional costs required to adhere to regulations of their involvement (i.e., the acquisition of both their assent to participate and their guardian’s permission for their participation). A decision was made to focus on legal adult drivers, which coincided with the focus on 18 – 34 year old drivers, in particular, who were the specific focus for the national Click It or Ticket occupant protection program.
Introduction

This report documents the design, collection, and analysis methodology that were used to implement the new National Highway Traffic Safety Administration (NHTSA) and Governor’s Highways Safety Association (GHSA) joint requirement to assess citizen attitudes, self-reported behaviors, and perceptions on three major traffic safety issues: (a) seat-belt use; (b) impaired driving (i.e., alcohol); and (c) speeding.

The Preusser Research Group, Inc in their Task 2 Final Report (2009) developed and tested a series of survey questions on the three interest areas required by NHTSA. These survey questions were taken from state and national organization surveys in use since 2004. A core group of questions was developed using a matrix of self-reported behavior, media awareness and enforcement awareness. Although observable seat-belt use is reported separately by all states, self-report behavior was included in these core questions to give additional information from the individual’s point of view.

In addition, Virginia’s Highway Safety Office (VHSO) desired questions on distracted driving as a fourth key behavior of interest. To comply, the final survey included questions on mobile phone use and texting while driving. Beyond the required three behaviors of interest across media, enforcement, and self-reported engagement, states can take advantage of this required survey to gather more information per its own interests.

States could choose how to collect these survey data. The Preusser Research Group recommended either phone or in-person surveys (e.g., at DMV offices) of licensed drivers 18+ years of age from a representative sample of the state. The minimum recommended sample size was 500.

The Commonwealth of Virginia chose to use a telephone-based, random digit dialing method. Evaluators from Old Dominion University (ODU) in partnership with the VHSO obtained the services of Issues and Answers Network, Inc. as part of an independent bid process through the Old Dominion University Research Foundation (the non-profit organization which manages the evaluators’ research grants and contracts). The survey was finalized and deployed, with data collection timed, to follow approximately one month after the conclusion of the 2011 Click It or Ticket program. Specifically, data reported here were collected in July, 2011.

The remainder of this report documents the basic procedures used to (a) create, test, and finalize the survey (most of this work was completed in baseline efforts of 2010), (b) design and select the samples of interest, (c) collect data, and (d) analyze major results. The purpose of 2011 was to give Virginia updated information on its citizens’ attitudes and behaviors as these can assist ongoing programs targeting the three key areas of seat-belt use, impaired driving, and speeding and the Virginia-added fourth area of distracted driving. Readers interested in comparing 2011’s results to Virginia’s baseline in 2010 should refer to Porter, Edwards, and Johnson (2010).

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Procedures

Survey

The evaluation team at Old Dominion University developed a draft survey, based on the required key areas listed above, in late spring and early summer 2010. The survey took as its questions those from Hedlund et al. (2009)\(^6\) that were most relevant, with other questions that were adapted from Hedlund et al.’s or added to address other topics (i.e., follow-up questions to the key questions, demographics, distracted driving).

The survey was reviewed and pilot-tested among ODU’s personnel, and given to the VHSO for review and suggestions. Once the survey questions were written and vetted to match requirements, a bid process was completed to select the vendor to finalize survey set-ups and begin data collection.

The chosen vendor, Issues and Answers Network, Inc., was brought to a planning and overview meeting after its personnel had time to review and suggest structural changes (not content changes) to administering the survey. For example, introductory language and screening variables were discussed and finalized. After this early meeting and subsequent exchanges regarding structural wording were completed, the team had its final, to-be-deployed survey in 2010\(^7\).

In 2011, Issues and Answers once again won the bid to proceed with the re-survey, and the first one required by the National Highway Traffic Safety Administration. A planning meeting was once again held, and the survey reviewed. Minor alterations were made in the first few questions of the survey (the screening questions) based on 2010 experiences. Additional, minor alterations were made once the 2011 survey began. These alterations did not change the survey’s focus, but rather were pursued to enhance the flow and efficiency with the respondents once they answered their phones. The alterations also helped obtain more completions.

The following are the main questions constituting the survey. These were not altered between 2010 and 2011. Main questions were those that addressed the required components of this survey that all states were to follow. Questions that come directly, or nearly directly, from Hedlund et al. (2009) are marked with an asterisk (*). In the actual survey administration, each behavior section was randomly presented to participants. For example, seat-belt use was the first behavioral category for some participants but it was presented in a different order for others.

Follow-up and demographic questions are not listed here. Rather, the full, complete survey as deployed in 2011 is provided in Appendix A.

**SEAT-BELT USE**

1. *How often do you use seat belts when you drive a car, van, sport utility vehicle or pick up?

2. How often do you wear seat belts when you are a **front seat passenger** in a car, van, sport utility vehicle or pick up?

3. How often do driving conditions change your seat-belt use?

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\(^6\) See note 3.

\(^7\) See note 5.
4. Do you wear your seat belt more, less, or about the same at night?

5. *In the past 60 days, have you read, seen or heard anything about seat-belt law enforcement by police?

6. *What do you think the chances are of getting a ticket if you don’t wear your seat belt?

IMPARED DRIVING

7. *In the past 60 days, how many times have you driven a motor vehicle within 2 hours after drinking alcoholic beverages?

8. *In the past 30 days, have you read, seen or heard anything about alcohol impaired driving (or drunk driving) enforcement by police?

9. In the past 30 days, have you read, seen or heard anything about designated driving programs?

SPEEDING

10. *On a local road with a speed limit of 30 mph, how often do you drive faster than 35 mph?

11. *Using the same scale, on an interstate with a speed limit of 65 mph, how often do you drive faster than 70 mph?

12. *What do you think the chances are of getting a ticket if you drive over the speed limit?

13. *In the past 30 days, have you read, seen or heard anything about speed enforcement by police?

DISTRACTED DRIVING

14. How often do you talk on a mobile phone while you are driving a motor vehicle?

15. Using the same scale, how often do you text with your mobile phone while you are driving a motor vehicle?

Sample Design and Preparations

As mandated by DOT HS 811 025 (August 2008), data were collected from a representative sample of licensed Virginia drivers who were 18 years and older. Issues and Answers Network, Inc based their sampling on the U.S. Census Bureau’s demographic profile of Virginia (2000 data). In 2000, Virginia had an estimated population of 7,078,515 people of whom approximately 5,340,253 met the age criteria of the survey.

Old Dominion University requested a minimum sample 1,000 stratified by population across the major regions of the Commonwealth (i.e., areas labeled as Northern Virginia, Richmond, Hampton Roads, Southwest, Other). This sample was called the “full” sample and would be the statewide sample to represent the average Virginia adult driver. In addition, ODU requested an oversampling of 18 – 34 year old licensed drivers similarly proportional across Virginia’s regions. The oversample size target was 300,
with 283 actually collected\(^8\). It became known as the “augment” sample, although in the Results section note that these 283 were combined with the 273 respondents from the full sample who were 18-34 years old, creating a sample of 556 that will be referred to as the augment sample when actual outcomes of the survey are discussed.

ODU required quotas only to ensure proportional sampling from Virginia’s major regions. The goal was to produce representative data to allow generalization to Virginians at large or to Virginians aged 18 – 34. However, Issues and Answers and ODU worked to meet additional soft quotas, or those that were targeted but not enforced. Specifically, the full and augment samples had soft quotas to meet expected gender proportions (male vs. female) and age proportions (18 – 24, 25 – 34, 35 – 44, 45 – 54, 55+) given known Virginia breakdowns for these two variables. The samples came sufficiently close to meeting soft quota goals; however men and younger respondents were underrepresented. Soft quota expected and actual sample comparisons for age group are available by request to Dr. Bryan Porter (see title page for contact information). Gender expectation and actual breakdowns are given in the next section.

Issues and Answers generated phone numbers for the full and augment samples through random digit dialing (RDD) methods. RDD methods have the potential to more accurately sample from listed and unlisted phone numbers (as opposed to purchasing particular phone number banks). RDD samples were drawn from each targeted region to ensure quotas would be reached and monitored. Further, ODU and Issues and Answers agreed that landline and cell phone numbers would be included. Issues and Answers’ experience and research suggested 79% of households predominately use landline phones while the remaining 21% are cell-phone only households. Therefore, the sample breakdowns roughly followed an 79 – 21 split with RDD, although in reality more cell phones were targeted – proportionally – to reach the 18 – 34 year old augment sample. The final sample breakdowns were 79.0% landlines for full and 73.3% landlines for augment, with the remaining participants in each sample collected via cell phone.

Once the samples were drawn, the actual interviews were collected using a Computer Assisted Telephone Interviewing (CATI) system. Leaders at Issues and Answers imported the survey into this system, managed testing to ensure the questions flowed as expected, involved trained interviewers (i.e., the company uses in classroom, role-play, and live pretest trainings), and provided continual supervision throughout the course of the project. Issues and Answers’ system and protocol also allowed quick and efficient daily reports, monitoring, access to the process by lead evaluators if requested, and, just as importantly, efficient downloading of final data into analysis platforms commonly used by evaluators (i.e., in this case, the data were directly transferrable into SPSS, a common statistical analysis software used in all projects run by the ODU team). More details about the Issues and Answers processes to manage such surveys are available from Dr. Bryan Porter (contact information on title page).

**Data Collection**

**Telephone Calls**

Telephone calls were made between 5:00 p.m. and 9:00 p.m. weekdays, and at varying day and night hours on weekends. Calls began on July 7 and ended July 25. The project team received daily updates from Issues and Answers. These updates included completion counts and quota management information (e.g., how well quotas were being met).

\(^8\) Significant efforts occurred to reach the 300 target. However, after the costs incurred to obtain the final 17 respondents were judged to exceed reasonable levels by both Issues and Answers and the ODU team, the authors of this report decided to cease recruitment. The final sample of 283, plus those 18-34 year olds from the full sample, was sufficient to make reliable conclusions about this age group.
The final collected sample sizes were 1,000 for the full sample of Virginians 18 years and older, and 283 for the augment sample of 18 - 34 year olds only (i.e., before the 18-34 year olds from the full sample were pooled with it). Table 1 provides the percents from these samples that came from the major regions of Virginia (as self-reported by respondents). Table 1 also lists the expected percent from each regions based on the stratified random design (expected percents were based on known population levels for each region). The full sample met the expected percent breakdowns. The augment sample approached the stratification goal, with disparities insufficient to be concerned for the representativeness of the data.

Table 1. Sample by self-reported region with expected percent breakdowns by quota and actual percent collected.

<table>
<thead>
<tr>
<th>REGION</th>
<th>Expected %</th>
<th>FULL SAMPLE</th>
<th>BASIC AUGMENT SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>n</td>
<td>Actual %</td>
</tr>
<tr>
<td>Northern Virginia</td>
<td>35.7</td>
<td>358</td>
<td>35.8</td>
</tr>
<tr>
<td>Richmond</td>
<td>15.7</td>
<td>157</td>
<td>15.7</td>
</tr>
<tr>
<td>Hampton Roads</td>
<td>20.9</td>
<td>209</td>
<td>20.9</td>
</tr>
<tr>
<td>Southwest</td>
<td>13.8</td>
<td>138</td>
<td>13.8</td>
</tr>
<tr>
<td>Other Regions</td>
<td>13.8</td>
<td>138</td>
<td>13.8</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1,000</td>
<td></td>
</tr>
</tbody>
</table>

Note: Regional information was self-reported by respondents. However, expected quotas from each region were based on U.S. Census estimates for 2000. See earlier note in the sample design section. The Augment sample here is only the extra sample of 18-34 year olds collected; 18-34 year olds from the full sample were added to the augment for analyses reported below to have a larger sample for more reliable estimates.

Besides overall sample size and regional quota information, gender was the next most important variable and the only one considered beyond statewide and region in this report’s edition. Table 2 gives the breakdown for gender per sample as well as comparisons to the soft quota for proportional participation (i.e., soft quotas were the goal but were not mandated per the sample design requirements between ODU and Issues and Answers).

Table 2. Sample by self-reported gender with soft quota percent and actual percent collected.

<table>
<thead>
<tr>
<th>GENDER</th>
<th>Soft Quota %</th>
<th>FULL SAMPLE</th>
<th>BASIC AUGMENT SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>Actual %</td>
<td>n</td>
</tr>
<tr>
<td>Males</td>
<td>48.0</td>
<td>394</td>
<td>39.4</td>
</tr>
<tr>
<td>Females</td>
<td>52.0</td>
<td>606</td>
<td>60.6</td>
</tr>
<tr>
<td>Total</td>
<td>1,000</td>
<td></td>
<td>283</td>
</tr>
</tbody>
</table>

Note: Gender information was inferred by interviewers or confirmed with respondents if there were questions. However, expected quotas from each region were based on U.S. Census estimates for 2000.

Data Set

Issues and Answers Network collected all data. No phone numbers, neither landline or cell phone, were ever included in the data set received by Old Dominion University nor VHSO. Issues and Answers destroyed the connecting data between phone number and responses. Data were analyzed by Dr. Bryan Porter in the Department of Psychology at ODU and students working in conjunction with him.
Results

The following section is organized by main topic area measured via the telephone survey. The three mandated topics (i.e., seat-belt use; impaired driving; speeding) are discussed first, followed by the optional topic (distracted driving) that Virginia added.

Preliminary Considerations

Self-Report Data

Surveys requiring self-reported driving behavior have several advantages over observing behavior. They allow information to be obtained that could not be obtained in any other way, such as opinion and perception of media, enforcement, public policy and personal motivation for change. Surveys also allow a large number of people to be accessed in a relatively short period of time. Telephone surveys also tend to reflect the same percentage of national concerns as other national surveys. Self-report surveys, however, can be prone to certain biases such as social desirability. Respondents may wish to control the impression they are making by deliberately giving an inaccurate answer. Respondents may also practice self-deception to the extent that they believe they are answering correctly. Self-deception, in particular, has been linked to driving skills. This self-deception leads to over-reliance in driving skills and inflated beliefs in safe driving behaviors.

Readers are encouraged to understand the strengths and weaknesses of self-report surveys as they read the results below. The data, like all data, should be compared with additional evaluation sources involving field work, crash reports, other self-report surveys, and so forth. The data are, however, useful in giving the VHSO and other interested traffic safety specialists information for program development and evaluation.

Analytical Decisions

Further, the dataset is extremely rich with various demographic and follow-up question breakdowns. The authors made a deliberate effort to determine which information is most important at this time for this annual report. This report therefore displays the following main groupings for each behavior of interest: (1) statewide responses; (2) gender differences; and (3) regional differences. The latter two variables, gender and regional information, are regularly considered in other reports on traffic safety programs in Virginia. The full survey is given in Appendix A; interested readers may contact the lead author for additional information about other variables of interest.

Statistical Significance and Sampling Error

Finally, the authors decided to report the data descriptively as opposed to inferentially. That is, the data and discussions which follow focus only on the percents given for different responses and categories (e.g., full vs. augment, male vs. female, etc.) without any effort to determine if different percents are mathematically equivalent or different enough to be “significant.” In no way should the written descriptions be taken to mean certain groups were statistically significant from others in response choices.

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Descriptive data are useful to give insights about potential differences among categories. In some cases, the VHSHO may wish to explore statistical significance via additional analyses or in comparisons with data to be collected in later years.

However, the sampling error for the full and augment responses are relevant and useful. The sampling error informs the reader about how well the obtained response of a sample is likely to represent the population. Specifically, how well does the full sample represent Virginians 18 years and older? How well does the augment sample represent Virginian’s 18 – 34 years of age? Small sampling errors are ideal, as these mean an obtained response is close to what is expected at the population level.

In the current work, the sampling errors were acceptable and congruent with other surveys of this type. For the full sample of 1,000 respondents, the sampling error for 95% confidence (the standard in research and evaluation) was +/- 3.1%. The augment sample of 283 respondents had a sampling error, for 95% confidence, of +/- 5.8%. One reason we added 18-34 year olds from the full to the augment sample before reporting results below was to decrease this error. By adding the 273 such participants to the 283 already in the augment, creating a sample of 556, we reduced the error to +/- 4.2%\[12\].

**Sample Set-ups for Comparison**

As mentioned previously, there were two main samples for comparison. The first, full sample, consisted of 1,000 licensed Virginian drivers aged 18 and older. The second, augment sample, was an oversampling of 283 licensed drivers aged 18 – 34 beyond the 273 participants aged 18 – 34 from the full sample, giving a total size of 556. The remainder of this document refers to full \( n = 1,000 \) versus augment comparisons \( n = 556 \), with the augment sample being the total pool of 18 – 34 years olds. Gender and regional information are also presented.

**Seat-Belt Use**

**Statewide Results**

The first questions assessing seat-belt use focused on use while driving, while riding as a passenger, and while driving in different conditions and times of day. As seen in Figures 1 and 2, the majority of respondents in both the full and augment samples reported always wearing their seat belts either as a driver or as a passenger. “Always” use rates exceed 90%, even among the augment sample who traditionally are considered higher-risk than the typical Virginian. These self-reported use rates well exceeded what the Virginia field study showed in 2011\[13\].

There were also differences between the full and augment samples for questions involving conditions and how respondents may change belt use. Specifically, 85.6% of the full sample stated that driving conditions never affected belt use, whereas 84.5% of the augment sample stated never. Therefore, the younger driver in general may be more likely to alter belt use given the road conditions, and while this may be helpful in poor weather it may become problematic when such drivers interpret different risks and pursue unbelted trips when conditions are perceived to be safe.

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12 An online, free error calculator is available at http://www.surveysystem.com/sscalc.htm.
13 The overall field-observed use rate for Virginia in 2010 was 81.8%, with drivers’ use rate being 82.0% and passengers’ 79.4%; Porter, B. E., & Murphy, E. M. (2011). *2011 seat-belt use in Virginia*. Norfolk, Virginia: Old Dominion University for the Virginia Highway Safety Office.
All figures display percentages.

Figure 1

How Often Do You Wear Seat Belts as a Driver?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Full</th>
<th>Augment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Always</td>
<td>93.5</td>
<td>93.5</td>
</tr>
<tr>
<td>Nearly Always</td>
<td>3.5</td>
<td>1.6</td>
</tr>
<tr>
<td>Sometimes</td>
<td>2</td>
<td>2.7</td>
</tr>
<tr>
<td>Seldom</td>
<td>0.4</td>
<td>0.5</td>
</tr>
<tr>
<td>Never</td>
<td>0.6</td>
<td>1.6</td>
</tr>
</tbody>
</table>

Figure 2

How Often Do You Wear Seat Belts as a Passenger?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Full</th>
<th>Augment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Always</td>
<td>93.1</td>
<td>92.4</td>
</tr>
<tr>
<td>Nearly Always</td>
<td>3.2</td>
<td>2.9</td>
</tr>
<tr>
<td>Sometimes</td>
<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>Seldom</td>
<td>0.8</td>
<td>0.5</td>
</tr>
<tr>
<td>Never</td>
<td>0.9</td>
<td>1.6</td>
</tr>
</tbody>
</table>

14 All figures display percentages.
Nighttime belt use continues to be a greater focus among traffic safety personnel\textsuperscript{15}. While field research has demonstrated belt use differences for day and nighttime (with nighttime rates typically lower than daytime)\textsuperscript{16}, the two samples here reported belt use to be the same at night as during the day (94.9\% of the full sample and 94.2\% of the augment, respectively).

An important concern for the VHSA and current evaluators was whether respondents remembered seeing, reading, and hearing anything about law enforcement targeting seat-belt use. The time frame for the question was “in the past 60 days,” placing it during the \textit{Click It or Ticket} 2011 mobilization (the mobilization was May to early June; this survey occurred in July). As shown in Figure 3, 43 – 45\% of the respondents from the samples remembered law enforcement activity.

![Figure 3](image)

Neither sample seemed certain of the chances of getting a ticket for not wearing a seat belt. Figure 4 shows the percent choosing very likely to very unlikely to get such a citation; note that the percentages are distributed across categories, although nearly half of each sample believed there was least a likely chance of being ticketed for non-belt use.

**Gender and Regional Information**

\textit{Gender}

The previous section reported statewide data. Recall that the sampling plan stratified responses as close as possible to population proportions across the main regions of Virginia. As such, data presented thus

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\textsuperscript{15} For examples of this growing focus, visit the National Highway Traffic Safety Administration’s website, and search for “nighttime belt use”. A myriad of reports and strategies for enforcement and roadside observation are available. http://www.nhtsa.gov.

\textsuperscript{16} For a good, recent example of such research and evaluation see: Masten, S. V. (2010). Do states upgrading to primary enforcement of safety belt laws experience increased daytime and nighttime belt use? \textit{Accident Analysis and Prevention}, 39, 1131-1139.
far can be interpreted as “the typical 18+ year old Virginian” and “the typical 18-34 year old Virginian” responds a certain way regarding seat-belt use. The following data for gender and regions, however, are to be used only as indicators of typical responses for men and women in Virginia, and of typical responses among five main regions: Northern Virginia, Richmond area, Hampton Roads (a group of several cities and counties in southeast Virginia), Southwest, and Other areas. Regional information was determined by respondent self-identification with an area. These data should not be used to generalize to the typical male or female, or typical resident in a certain region without additional study and more refined sampling to produce such justifiable generalizations.

The overall differences between men and women reporting that they always wear seat belts as drivers and passengers versus not always are shown in Figure 5. Both men and women reported rates of always buckling up exceeding 90 percent. Within gender, there were small differences between full and augment samples and between drivers and passengers.

Women were more likely than men in the full, statewide sample to have witnessed in some manner law enforcement activities targeting non-belt use in the past 60 days (see Figure 6). The tendency was reversed for the augment sample, with men recalling activities with greater frequency than women.

Figure 4

What Do You Think the Chances Are of Getting a Ticket If You Don't Wear a Seat Belt?

<table>
<thead>
<tr>
<th></th>
<th>Very Likely</th>
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<th>Neither Likely Nor Unlikely</th>
<th>Unlikely</th>
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<tbody>
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<tr>
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<td>28.4</td>
<td>15.3</td>
<td>25.7</td>
<td>10.6</td>
</tr>
</tbody>
</table>

- 15 -
For the full sample, men and women similarly perceived the likelihood of receiving a ticket for non-belt use to be at least likely (or unlikely; their combined perceptions were not meaningfully different, although more women felt the likelihood to be “very likely”). However, for the augment sample, women perceived the likelihood to be greater than men did, with the men perceiving it to be less likely to be given a non-use ticket (Figure 7).
Regional Differences

As with gender, regional differences are to be interpreted with caution. Sample sizes for regions vary; Northern Virginia’s data resulted from a larger sample than Southwest’s because Northern Virginia contributed more respondents to the full and augment samples and state-weighted outcomes. The sampling design was not structured to produce a representative comparison across regions. The following data are only indicators of potential differences.

Two questions were of interest when comparing regions. First, evaluators considered regional differences in witnessing enforcement activities targeting non-belt use. Figure 8 shows that the Hampton Roads’ respondents in the full sample, and Southwest respondents in the augment, were more likely to remember witnessing enforcement activity than the other main regions. In addition, the Southwest in the full sample and Other regions in the augment had higher frequencies of “very likely” perceptions of getting a ticket for non-use. Figure 9 shows these data for each sample.

![Figure 7](image_url)

**Figure 7**

Perceived Chances of Getting a Ticket for Seat Belt Non-Use by Respondent Gender
Figure 8
Read, Seen, Heard about Seat Belt Law Enforcement by Respondent Region in Past 60 Days

Figure 9
Perceived Chances of Getting a Ticket for Seat Belt Non-Use by Respondent Region
Topic Conclusions

The majority of respondents reported always wearing their seat belts, and in all conditions and times of day. These data do not match what is known from Virginia field studies or from other literature, which may call into question whether the sampling methodology reached those at greatest risk for non-belt use. This concern was mitigated somewhat by the focus of one sample on 18-34 year olds, the identified risk group for belt use interventions. It remains to be seen whether (a) the hard-core non-users participated in the survey or (b) the self-report nature of the survey led people to over-report their belt use much more than is typically expected by such surveys.

While sampling questions will be answered after additional years’ data are collected, there are useful findings that can be built upon in additional belt-use interventions. First, targeted groups are receiving the enforcement message more than non-targeted groups. Specifically, a higher percent of men in the younger, augment sample reported witnessing belt-use enforcement activity. This is important because this sample includes the targets of CIOT: 18-34 men. Likewise, respondents from Southwest, a region of great interest for having low belt use rates and high-fatality rates per capita, was among the most likely (or was the most likely) to report witnessing enforcement activities. Southwest respondents also were among the most likely to perceive a higher likelihood of receiving a ticket for non-belt use.

Impaired Driving

Statewide Results

Asking questions about one’s drinking behavior is more difficult than asking about seat-belt use. The current evaluators have seen this phenomenon over several surveys from past work, with respondents becoming very quick to tell them that they do not drink. Drinking – and particularly drinking and driving – has more negative connotations than being unbuckled in a vehicle.

Therefore, the first piece of data (Figure 10) presents the percent of respondents who, when asked if they had driven within two hours of drinking alcohol in the past 60 days, either answered the question or responded “I don’t drink.” Those who answered the question would be considered “Those who drink” at least sometimes in future questions, whereas those who refused to answer by stating they don’t drink were operationalized as “Non-drinkers.” As seen in Figure 10, 55-60% of each sample answered the question and were considered “at least sometimes drinkers.”

Figure 11 shows answers from the follow-up question regarding how many times the drinkers had driven within two hours of drinking alcohol in the past 60 days. The question was answered by the 556 people in the full sample and 331 in the augment who were operationalized as at least drinking sometimes (those who gave an answer, shown in Figure 9). The vast majority of both samples (at least 80%) said they had not driven in such a way in the past 60 days. Interestingly, 17.8% of the full sample and 19.3% of the augment had driven in such a way at least twice in the past 60 days, and could be inferred to have potentially been among the impaired driving population the previous two months.

The next figure uses both the population of at least sometimes drinkers and those who stated they did not drink. Figure 12 displays the perceived likelihood that “someone” will get arrested after drinking as rated by those who do not drink (i.e., the 444 and 225 non-drinkers from the full and augment sample,
respectively). It also displays the perceived likelihood that the individual him or herself will be arrested after drinking, as rated by respondents who were at least sometimes drinkers (i.e., the 556 and 331 drinkers from the full and augment sample, respectively). Overall, the augment sample perceived the likelihood of getting arrested to be higher than the full sample. Further, the differences between rated likelihoods for someone versus oneself were not large.

Two remaining questions were important to consider for Virginia at-large. Respondents were asked whether they had read, seen, or heard about police enforcement of impaired driving and about designated driving programs. The time period for recollection was “in the past 30 days.”17 About half (50.9%) of the full sample and 46.9% of the augment recalled witnessing impaired driving enforcement (Figure 13). Even fewer respondents recalled designated driving programs in the same time period, again with fewer recollections in the augment sample (only 1 in 5 compared to nearly 1 in 4 among the full sample; Figure 14).18

---

17 The 30-day time period was used to remain consistent with previous questions reviewed by Hedlund et al. (see footnote #2). Impaired driving programs are often ongoing, so it was reasonable to ask about the previous 30-day period.

18 Appendix A provides more information about what designated driving programs were recalled. See question #9b.
Figure 11

Number of Times Driven Within 2 Hours of Drinking Alcohol in Past 60 Days

- Full
- Augment

Figure 12

Perceived Chances of Getting Arrested After Drinking: Ratings of "Someone" for Non-drinkers and "Self" for Those Who Drink
Figure 13

Read, Seen, or Heard About Police Enforcement of Impaired Driving in Past 30 Days?

<table>
<thead>
<tr>
<th>Yes</th>
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<tr>
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</tbody>
</table>

Figure 14

Read, Seen, or Heard About Designated Driver Programs in Past 30 Days

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</tr>
</thead>
<tbody>
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<td>20.7</td>
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Gender and Regional Information

Gender

As with seat-belt use, the statewide questions were re-assessed by gender breakdowns. Figures 15 shows that more men than women in each sample gave an answer to the drinking question; therefore more men than women were operationalized to be, at minimum, sometimes drinkers. However, most of each gender in each sample who were considered “sometimes drinkers” reported zero times that driving occurred within two hours of drinking alcohol in the past 60 days. Men were more likely than women in each sample to have driven after drinking two or more times (Figure 16).

Figures 17 and 18 show each gender’s ratings of the likelihood of someone or self being arrested after drinking. Recall that the “someone” ratings were by respondents who reported that they do not drink. Self ratings were by respondents operationalized to be at least sometimes drinkers. The majority of both rating groups believed it to be very likely or likely to be arrested for drinking and driving.

![Figure 15: Driving within 2 Hours of Drinking Alcohol in Past 60 Days]
Figure 16

Number of Times Driving Within 2 Hours of Drinking Alcohol in Past 60 Days

<table>
<thead>
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<td>10.2</td>
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</tbody>
</table>

Figure 17

Perceived Chances of Getting Arrested After Drinking: Ratings of "Someone" by Non-Drinkers

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<th>Very Likely</th>
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- 24 -
More men than women, when inspecting each sample, recalled reading, seeing, or hearing about police enforcement of impaired driving. Further, more men than women, again when looking within each sample, remembered witnessing information about designated driving programs. Figures 19 and 20 provide the percentages. Note that about half of the men recalled police; 20% to nearly 40% of men recalled designated driving programs.

**Regional Differences**

Figure 21 shows the percent of respondents by region who were considered at least sometimes drinkers or non-drinkers. In the full sample, “sometimes” drinkers outnumbered non-drinkers in three of the five regions. Northern Virginia, Richmond, and Hampton Roads’ respondents were more likely than others in this sample to be considered drinkers. Sometimes drinkers, on the other hand, outnumbered non-drinkers in every region of the augment sample except for Other, where the frequency was equal for drinkers and non-drinkers. The higher rates of drinkers than non-drinkers in the augment sample, compared to the full sample, makes sense in that the augment sample included only those aged 18 – 34 who, as an age group, are more likely to drink.\(^{19}\)

Figure 19

Read, Seen, or Heard About Police Enforcement of Impaired Driving in Past 30 Days

![Bar chart showing percentages of males and females who read, seen, or heard about police enforcement of impaired driving in the past 30 days.](chart19)

Figure 20

Read, Seen, or Heard About Designated Driving Programs in Past 30 Days

![Bar chart showing percentages of males and females who read, seen, or heard about designated driving programs in the past 30 days.](chart20)
Figure 21 displays the number of times within 60 days that these sometimes drinkers drove within two hours of drinking alcohol. Southwest respondents in the full sample and Other region in the augment reported higher rates of zero times driving in these conditions than other regions, but in general the rates for all regions were very high for reporting zero occasions. Northern Virginia in the full sample and Richmond in the augment had a higher percentage of driving in this situation two or more times.

Figure 22
Figures 23 and 24 provide regional data on someone versus self being arrested after drinking and driving. The regions mostly agree on the likelihoods, with few differences between someone and self chances. However, it is interesting to note that ratings of someone getting arrested by the augment group tended more toward “very likely” to “likely” than ratings by the full sample. Younger respondents believed the chances of being arrested were greater than Virginians in general.

Figures 25 and 26 show regional percentages for reading, seeing, or hearing about police enforcement of impaired driving and designated driving programs, respectively. Northern Virginia respondents typically reported less recollection of police enforcement activity than other regions. Augment respondents, across regions, typically were less likely to recall designated driving programs than the full sample (the exception was for Other region respondents, who responded in the reverse).
Figure 24

Perceived Chances of Getting Arrested After Drinking:
Ratings of "Self" by Drinkers by Region

Figure 25

Read, Seen, or Heard about Police Enforcement of Impaired Driving in Past 30 Days by Region
Topic Conclusions

Alcohol use is a difficult behavior to address in such self-report measures, as it is reasonable to assume most people responding to the survey know that impaired driving is illegal and considered unsafe. This is one potential reason that a high number of respondents reported immediately that they do not drink. Even so, of the samples operationalized as “at least sometimes drinkers,” 11.9% to 12.4% admitted to driving two or more times within two hours of drinking alcohol. These percentages are not trivial.

As with seat-belt use, half or fewer of the respondents recalled police activities – in this case, activities targeting impaired driving. Even fewer statewide (less than 37%) recalled designated driving programs. One positive finding among these results was the perceived likelihood, by both samples, both genders, and most regions, that impaired drivers would be arrested.

Program officials leading impaired driving programs could benefit by capitalizing on the perceptions of being arrested by continuing enforcement messages. However, to counterbalance these efforts, the data also clearly indicate more could be done to promote designated driving programs and encourage participation in those programs.

Speeding

Statewide Results

Evaluators focused less on speeding and distracted driving (in the next section) than seat-belt use and alcohol considerations. They did so strategically in that speeding and distracted driving receive less
attention than the other two traffic behaviors. They also did so to keep the survey length manageable to encourage respondent completions and meet budget requirements. Even with these limitations, valuable data were obtained that will help programs focus more attention on speeding and distracted driving in Virginia.

The first comparison is speeding on a typical local road versus speeding on an interstate. Figure 27 displays the likelihood respondents in each sample would speed more than 5 mph above a posted 30 mph road or 65 mph road. The pattern of responses for each road was similar, with the percent admitting to nearly always to always speeding 5 mph or more being lower than the percent responding seldom to never. In all, about half of the respondents from both samples admitted to at least sometimes speeding.

Respondents also believed that the chances of getting a ticket for speeding were good (Figure 28). The majority of respondents from both the full and augment samples believed the chances were very likely to likely. The full and augment samples’ percent breakdowns were nearly equivalent for most categories.

![Figure 27](Image)

**Figure 27**

**How Often Do You Drive More than 5 mph Over the Posted Speed Limit on Certain Roadway Types?**

- Always
- Most of the time
- Sometimes
- Rarely
- Never
- Always
- Most of the time
- Sometimes
- Rarely
- Never

Speed limit 30 mph, but drive faster than 35 mph (local road)

Speed limit 65 mph, but drive faster than 70 mph (interstate)

- Full
- Augment
Figure 28

Perceived Chances of Getting a Ticket for Driving Over the Speed Limit

Figure 29

Read, Seen, Heard about Speed Enforcement by Police in the Past 30 Days
Figure 29 provides the response percents for each sample’s awareness of police activity targeting speeding in the previous 30-day period. The difference between the samples was negligible. Overall, about 40% of each sample recalled such activity.

Gender and Regional Information

*Gender*

Figure 30 provides the likelihood of speeding on local (30 mph) and interstate (65 mph) roads by gender. Gender responses for the full and augment samples were similar for local road speeding (i.e., similar patterns). Similar patterns were observed for driving more than 70 mph on roads with a posted limit of 65 mph (e.g., interstates; Figure 31). Men in both the full and augment samples were more likely than women to at least sometimes speed. Women were more likely to report seldom or never speeding in this situation.
Women in the augment sample, though, and men in the full were more likely to believe receiving a ticket for speeding was very likely or likely (Figure 32). There were few differences recorded for recollections of speed enforcement activities (Figure 33).

**Figure 31**

*How Often Do You Drive More than 70 mph on A Road with A Posted Speed Limit of 65 mph?*

**Figure 32**

*Perceived Chances of Getting a Ticket for Driving Over the Speed Limit by Respondent Gender*
Regional Differences

Regional percentages for speeding frequency are given in Figures 34 and 35. In both cases of speeding (on lower and higher speed roads), there were few regional differences between samples (full or augment).

Finally, Figures 36 and 37 display perceptions of getting a ticket and recall of police activities targeting speeding, respectively. For perceived chances of getting a ticket, full and augment respondents across regions were roughly similar in that the majority of each region, across each sample, believed the chances of getting a ticket were at least likely. Further, there were regional differences in recollection of police activity. Richmond respondents in the full and Hampton Roads’ ones in the augment were more likely to recall police targeting speeding.
Figure 34

How Often Do You Drive More than 35 mph on a Road with a Posted Speed Limit of 30 mph?

Figure 35

How Often Do You Drive More than 70 mph on a Road with a Posted Speed Limit of 65 mph?
Figure 36

Perceived Chances of Getting a Ticket for Driving Over the Speed Limit by Respondent Region

Figure 37

Read, Seen, Heard about Speed Enforcement in the Past 30 Days by Respondent Region
Topic Conclusions

Approximately half of Virginians reported at least sometimes speeding on local or interstate roads. Perceptions of receiving a ticket for speeding were relatively high, although recollections of police activity targeting enforcement were less than 50% in most of the data comparisons.

Given the high frequency that law enforcement targets speeding, particularly in conjunction with other programs such as Click It or Ticket, it was somewhat surprising to see the recollection of activities at about the same level as recollection of seat-belt and impaired-driving enforcement, which have particular programs running at particular times (although the impaired programs are run with much higher frequency than occupant protection selective enforcement efforts).

Recommendations for future programs targeting speeding are more difficult to pull from these data alone without referring to extant literature. Enforcement efforts are important and should continue, as respondents believed tickets were likely.

Distracted Driving

Statewide Results

Evaluators included and asked only two distracted driving questions, and both involved mobile phones. There are certainly other variables affecting distracted driving, but the main one focused upon in the traffic safety community is the use of mobile phones while driving. The questions here assessed the frequency of talking on a mobile phone and frequency of texting while driving. Figure 38 presents the results by sample for the frequency of talking. More than 60% of the full sample and almost half of the augment sample reported seldom-to-never talking on a mobile phone while driving. An even larger number of respondents reported seldom-to-never texting while driving (88% or more; see Figure 39).

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Figure 38

How Often Do You Talk on a Mobile Phone While You Are Driving a Motor Vehicle?

---

20 We did not differentiate between hand-held and hands-free mobile phone use.
Gender and Regional Information

Gender

Men and women of each sample reported similar rates of talking on mobile phones while driving (Figure 40). There were even smaller differences between men and women when asked about texting while driving (Figure 41). Both groups were at least 70% likely to say never, although the texting rates for the augment group were higher than the full sample.

Regional Differences

The final two figures of this report provide regional information for talking on a mobile phone and texting while driving. Figure 42 shows that across regions and both samples the frequencies of talking on a mobile phone while driving were roughly equivalent. The most common responses were sometimes to seldom, although the rates of sometimes were indeed higher in the augment sample.

Figure 43 shows the texting frequencies. The majority reported never texting while driving. However, there were sample differences. The augment sample across regions was more likely to report some texting than the full sample.
How Often Do You Talk on a Mobile Phone While You Are Driving a Motor Vehicle?

How Often Do You Text with Your Mobile Phone While You Are Driving a Motor Vehicle?
Topic Conclusions

While the majority of respondents did not frequently talk on mobile phones or text while driving, the data indicated that sufficient numbers were doing so to warrant continued monitoring. Young drivers (in the augment) are certainly at risk. Further, gender differences appeared to be negligible, which means this particular traffic safety problem may involve women in as much risk as men. Regionally, there were few differences. Distracted driving cannot be isolated to particular respondent regions.

Discussion

This survey, which will be administered in some form annually, addressed seat-belt use, impaired driving, and speeding. It also addressed distracted driving via mobile phone use at the request of the VHSO. Perceptions of media, enforcement, and self-involvement in the behaviors were key considerations. The data provided statewide estimates representing two groups of Virginia licensed drivers: (1) a sample of 18+ year olds \( (n = 1,000) \) and (2) a sample of 18 – 34 year olds \( (n = 556) \). Additional data were presented that, with cautious interpretation, provided indications of gender and regional differences among the three key behaviors. For this general discussion, important issues are presented.
First, the data – regardless of the behavior being questioned – clearly indicated that the majority of Virginians perceived their behaviors to be consistent with safe-driving practices. The majority reported wearing seat belts, not speeding, not drinking and driving, and not regularly using mobile phones while driving. These reports were consistent with known field work investigating actual roadway behaviors. However, what was also clear, and this is a concern for future surveys, was that the percentages reporting engagement in the risk behavior seemed lower than those observed doing the behavior (e.g., less than 10% reported not always buckling up, but field studies in Virginia show this rate closer to 19.2%)\(^{21}\). Hard-core, risky drivers and passengers may be less likely to participate in these surveys and interpretations must be cautious as a result.

Second, again regardless of the behavior, a meaningful percentage of respondents (approximately half) believed that police will catch risky behaviors and give tickets or make arrests (i.e., the latter for impaired driving). Yet, less than half of respondents recalled seeing enforcement activities.

Third, there were many similarities between the full and augment samples. It is possible that the augment sample’s similarity was partially due to 273 participants who were in both the full and augment samples (i.e., recall that 18 - 34 year olds in the full sample were used in the full sample but also brought over to increase the sample size and reduce the sampling error in the augment sample). However, this explanation does not fully capture how the augment group’s trends and tendencies often mirrored the full sample. Of course, designated driving recollections and the reports of drinking after two drinks were different between samples, and these differences are worth exploring in future surveys.

Finally, a brief note is required about gender and regional differences. While caution is necessary when interpreting these findings, in most cases it appears that gender and regional differences were mostly marginal. In this particular survey, men and women, and respondents from among Virginia’s regions, reacted quite similarly to attitude, perception, and behavior questions.

\(^{21}\) See footnote 13.
The authors encourage readers to consider other questions from the data. As mentioned previously in the report, the authors made decisions regarding what to present based on established priorities. However, they look forward to exploring other components of the data now and in future surveys – and encourage partners to suggest new avenues for consideration.
Appendix A

Text of script used in the 2011 telephone survey, including raw percentages of answers for questions with multiple choice options. Questions listed below that do not have percent responses were those involving free responses or questions for screening purposes only.

GENERAL POPULATION RAW PERCENTAGES IN BOLD (N = 1,000)
AUGMENT POPULATION RAW PERCENTAGES (AGES 18-34) IN ITALICS (N = 556)

CORE 9 TRAFFIC SAFETY SURVEY
Old Dominion University on behalf of the Virginia Department of Motor Vehicles

Project Director: Bryan E. Porter, Ph.D.

Introduction

Hello, my name is __________________ with Issues & Answers Network in Virginia Beach. We are conducting a brief survey on behalf of traffic safety officials in Virginia. Your responses will be kept completely confidential. Your telephone number was selected at random and we are not trying to sell you anything.

May I please speak to the youngest adult in the household age 18 or older who has a valid driver’s license and drives a motor vehicle? (WHEN SPEAKING WITH APPROPRIATE RESPONDENT, GO TO SCREENER. IF SOMEONE ELSE COMES TO THE PHONE, REPEAT INTRODUCTION EXCEPT FOR THE LAST SENTENCE):

Screen:

AGE RANGE QUESTION (Q17) MOVED TO UP HERE FOR SCREENING AND THIS IS USED TO DETERMINE ELIGIBLE AGE; S1 DELETED.

S2. Do you have a valid driver’s license and drive a motor vehicle?
   1 Yes (CONTINUE INTERVIEW)
   2 No (RE-SCREEN FOR ADULT WITH LICENSE)

S4. How would you classify your household’s phone usage? Would you say …
   1 Cell phone only (if S3=1, classify as cell phone quota, otherwise TERMINATE)
   2 Cell phone mostly (if S3=1, classify as cell phone quota, otherwise TERMINATE)
   3 Landline mostly (if S3=2, classify as landline quota, otherwise TERMINATE)
   4 Landline only (if S3=2, classify as landline quota, otherwise TERMINATE)
   5 Don’t know/refused (TERMINATE)

S4a. If S3 and S4 do not match, ask for phone number from S4. (cell if S4=1,2 and landline if S4=3,4).
S5. How would you classify the region of Virginia where you reside? (READ)
   1. Northern Virginia  35.8%  39.9%
   2. Richmond          15.7%  15.5%
   3. Hampton Roads     20.9%  18.2%
   4. Southwest Virginia 13.8%  14.2%
   5. Some other area of Virginia 13.8%  12.2%

Section 1: Seat Belt Usage (Randomize Sections 1, 2, 3, & 4)

NOTE: RESPONSE CHOICES ARE READ TO RESPONDENT EXCEPT WHERE INDICATED.

1. How often do you use seat belts when you **drive** a car, van, sport utility vehicle or pick up?
   a) Always          93.5%  93.5%
   b) Nearly always   3.5%   1.6%
   c) Sometimes       2.0%   2.7%
   d) Seldom          0.4%   0.5%
   e) Never           0.6%   1.6%

1a. (IF RESPONDENT ANSWERS ANYTHING OTHER THAN “A-ALWAYS”)
What ONE thing, over all others, would convince you to wear your seat belt all the time? (DO NOT READ LIST, BUT MARK THE ONE THAT APPLIES CLOSEST)
   a) A primary law in Virginia (or a stronger law in Virginia) 4.6%   0
   b) Getting a ticket                                      9.2%   2.8%
   c) Being in a crash                                     10.8%  30.6%
   d) Insurance reduction                                 3.1%   5.6%
   e) Family motivating me                               12.3%  13.9%
   f) If I had children                                  13.8%  11.1%
   g) Other: _                                           46.2%  36.1%

2. How often do you wear seat belts when you are a **front seat passenger** in a car, van, sport utility vehicle or pick up?
   a) Always          93.1%  92.4%
   b) Nearly always   3.2%   2.9%
   c) Sometimes       2.0%   2.5%
   d) Seldom          0.8%   0.5%
   e) Never           0.9%   1.6%

3. Using the same scale, how often do driving conditions change your seat belt use?
   a) Always          9.3%   9.2%
   b) Nearly always   1.2%   0.9%
   c) Sometimes       2.6%   3.2%
   d) Seldom          1.3%   2.2%
   e) Never           85.6%  84.5%
4. Do you wear your seat belt more, less, or about the same at night?
   a) More 4.5% 4.9%
   b) Less 0.6% 0.9%
   c) About the same 94.9% 94.2%

5. In the past 60 days, have you read, seen or heard anything about seat belt law enforcement by police:
   a) Yes 43.5% 45.3%
   b) No 56.5% 54.7%

5a. (IF RESPONDENT SAYS YES HE/SHE HAS HEARD SOMETHING ABOUT SEAT BELT LAW ENFORCEMENT BY POLICE) Where did you read, see or hear about it? (LET RESPONDENT FREE RESPOND WITHOUT US READING THE LIST AND CHECK ALL THAT APPLY).
   a) Newspaper 9.5% 4.0%
   b) Radio 12.4% 12.7%
   c) TV 33.2% 12.4%
   d) Billboards 30.9% 44.0%
   e) Brochure 0.7% 1.6%
   f) Police enforcement 3.1% 5.2%
   g) Other 19.2% 9.1%

6. What do you think the chances are of getting a ticket if you don’t wear your seat belt?
   a) Very likely 21.1% 20.0%
   b) Likely 27.6% 28.4%
   c) Neither likely nor unlikely 12.7% 15.3%
   d) Unlikely 27.7% 25.7%
   e) Very unlikely 10.9% 10.6%

Section 2: Alcohol use questions

7. In the past 60 days, how many times have you driven a motor vehicle within 2 hours after drinking alcoholic beverages?
   a) ENTER NUMBER:_____
   b) I don’t drink

7a (IF RESPONDENT SAYS HE/SHE DOES NOT DRINK) What do you think the chances are of someone getting arrested if he or she drives after drinking?
   a) Very likely 34.7% 40.0%
   b) Likely 38.3% 35.1%
   c) Neither likely nor unlikely 11.5% 12.0%
   d) Unlikely 12.6% 12.0%
   e) Very unlikely 2.9% 0.9%
7b. (IF RESPONDENT GIVES ANY ANSWER OTHER THAN I DO NOT DRINK) What do you think the chances are of getting arrested if you drive after drinking?

<table>
<thead>
<tr>
<th>Option</th>
<th>Yes (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very likely</td>
<td>35.6%</td>
<td>41.7%</td>
</tr>
<tr>
<td>Likely</td>
<td>34.7%</td>
<td>31.7%</td>
</tr>
<tr>
<td>Neither likely nor unlikely</td>
<td>12.9%</td>
<td>13.0%</td>
</tr>
<tr>
<td>Unlikely</td>
<td>11.9%</td>
<td>10.3%</td>
</tr>
<tr>
<td>Very unlikely</td>
<td>4.9%</td>
<td>3.3%</td>
</tr>
</tbody>
</table>

8. In the past 30 days, have you read, seen or heard anything about alcohol impaired driving (or drunk driving) enforcement by police?

<table>
<thead>
<tr>
<th>Option</th>
<th>Yes (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>50.9%</td>
<td>46.9%</td>
</tr>
<tr>
<td>No</td>
<td>49.1%</td>
<td>53.1%</td>
</tr>
</tbody>
</table>

8a. (IF RESPONDENT SAYS YES HE/SHE HAS HEARD SOMETHING ABOUT ALCOHOL IMPAIRED DRIVING ENFORCEMENT BY POLICE) Where did you read, see or hear about it? (LET RESPONDENT FREE RESPOND AND CHECK ALL THAT APPLY).

<table>
<thead>
<tr>
<th>Option</th>
<th>Yes (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newspaper</td>
<td>21.2%</td>
<td>15.6%</td>
</tr>
<tr>
<td>Radio</td>
<td>17.1%</td>
<td>15.0%</td>
</tr>
<tr>
<td>TV</td>
<td>46.3%</td>
<td>35.3%</td>
</tr>
<tr>
<td>Billboards</td>
<td>5.9%</td>
<td>11.3%</td>
</tr>
<tr>
<td>Brochure</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Police enforcement</td>
<td>4.5%</td>
<td>8.0%</td>
</tr>
<tr>
<td>Other</td>
<td>19.0%</td>
<td>25.0%</td>
</tr>
</tbody>
</table>

9. In the past 30 days, have you read, seen or heard anything about designated driving programs?

<table>
<thead>
<tr>
<th>Option</th>
<th>Yes (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>24.8%</td>
<td>20.7%</td>
</tr>
<tr>
<td>No</td>
<td>75.2%</td>
<td>79.3%</td>
</tr>
</tbody>
</table>

9a. (IF RESPONDENT SAYS YES HE/SHE HAS HEARD SOMETHING ABOUT DESIGNATED DRIVING PROGRAMS) Where did you read, see or hear about it? (LET RESPONDENT FREE RESPOND AND CHECK ALL THAT APPLY).

<table>
<thead>
<tr>
<th>Option</th>
<th>Yes (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newspaper</td>
<td>11.8%</td>
<td>7.3%</td>
</tr>
<tr>
<td>Radio</td>
<td>16.0%</td>
<td>22.0%</td>
</tr>
<tr>
<td>TV</td>
<td>51.0%</td>
<td>42.3%</td>
</tr>
<tr>
<td>Billboards</td>
<td>3.3%</td>
<td>6.8%</td>
</tr>
<tr>
<td>Brochure</td>
<td>1.8%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Police enforcement</td>
<td>0.3%</td>
<td>1.7%</td>
</tr>
<tr>
<td>Other</td>
<td>17.1%</td>
<td>22.6%</td>
</tr>
</tbody>
</table>
9b. Do you remember any names of those designated driving programs? If so, what was the name? (LET RESPONDENT FREE RESPOND AND CHECK ALL THAT APPLY).
   a) Be A HERO, Be A Designated Driver
   b) Friends don’t let friends drive drunk
   c) Other ______________
   d) I do not remember any program names

Section 3: Speed Enforcement

10. On a local road with a speed limit of 30 mph, how often do you drive faster than 35 mph?
   a) Always 7.2% 8.5%
   b) Most of the time 13.3% 18.2%
   c) Sometimes 28.8% 30.2%
   d) Rarely 32.5% 29.5%
   e) Never 18.2% 13.7%

11. Using the same scale, on an interstate with a speed limit of 65 mph, how often do you drive faster than 70 mph?
   a) Always 5.7% 7.4%
   b) Most of the time 12.1% 14.9%
   c) Sometimes 24.1% 31.1%
   d) Rarely 28.3% 25.9%
   e) Never 29.8% 20.7%

12. What do you think the chances are of getting a ticket if you drive over the speed limit?
   a) Very likely 24.8% 23.0%
   b) Likely 39.1% 42.1%
   c) Neither likely nor unlikely 14.9% 16.2%
   d) Unlikely 16.7% 14.4%
   e) Very unlikely 4.5% 4.3%

13. In the past 30 days, have you read, seen or heard anything about speed enforcement by police?
   a) Yes 42.1% 39.7%
   b) No 57.9% 60.3%
13a. (IF RESPONDENT SAYS YES HE/SHE HAS HEARD SOMETHING ABOUT SPEED ENFORCEMENT BY POLICE) Where did you read, see or hear about it? (LET RESPONDENT FREE RESPOND AND CHECK ALL THAT APPLY).

a) Newspaper 14.0% 10.0%
b) Radio 11.2% 8.9%
c) TV 31.0% 21.7%
d) Billboards 13.6% 23.3%
e) Brochure 0.8% 0.9%
f) Police enforcement 14.5% 17.7%
g) Other 14.4% 19.6%

Section 4: Distracted Driving

14. How often do you talk on a mobile phone while you are driving a motor vehicle?
   a) Always 1.6% 4.1%
b) Nearly always 4.6% 9.2%
c) Sometimes 28.4% 36.0%
d) Seldom 35.0% 33.1%
e) Never 29.0% 16.4%
f) DO NOT READ BUT HAVE IN CASE: I do not own a mobile phone. 1.4% 1.3%

15. Using the same scale, how often do you text with your mobile phone while you are driving a motor vehicle?
   a) Always 0.2% 0.7%
b) Nearly always 0.4% 1.3%
c) Sometimes 3.7% 8.5%
d) Seldom 10.3% 16.0%
e) Never 84.0% 72.3%
f) DO NOT READ BUT HAVE IN CASE: I do not own a mobile phone. 1.4% 1.3%

Section 5: Demographics

Now I’d like to ask just a few questions about you. (DO NOT READ LISTS)

16. May I please have your zip code?__________
   a) Refused
17. What is your age? (ask after S1 in 13347a job) – MOVED TO UP FRONT
   b) 18-24  
      7.3%  23.9%
   c) 25-34  
      20.0%  76.1%
   d) 35-44  
      24.0%
   e) 45-54  
      28.0%
   f) 55 or older  
      28.0%
   g) Refused  
      0.7%

18. Are you male or female? (ASK ONLY IF NOT EVIDENT OR UNCERTAIN)
   a) Male  39.4%  40.1%
   b) Female  60.6%  59.9%

19. Approximately how many miles do you drive each week?
   Median: 100 miles 140 miles

20. What is your profession? ____________

21. Please select which category includes your total household income from all sources before taxes last year?
   a) Less than $25,000  9.2%  7.6%
   b) $25,000 to less than $50,000  11.9%  15.3%
   c) $50,000 to less than $75,000  16.4%  16.5%
   d) $75,000 to less than $100,000  12.6%  16.4%
   e) $100,000 to less than $150,000  17.3%  15.1%
   f) $150,000 to less than $200,000  4.4%  4.0%
   g) $200,000 or more  4.7%  3.1%
   h) Refused  23.5%  22.1%

22. Are you of Hispanic, Latino or Spanish origin?
   a) Yes  4.4%  7.2%
   b) No  93.4%  90.1%
   c) Refused  2.2%  2.7%

23. What is your race?

   (DO NOT READ THESE CATEGORIES CHECK THE CLOSEST ONE THAT APPLIES. IF NONE IS A DIRECT MATCH, REPEAT BACK THE PERSON’S CHOICE BEFORE CHECKING OTHER)
   a) White  76.7%  74.6%
   b) Black, African Am., or Negro  11.3%  11.5%
   c) American Indian or Alaska Native  0.6%  0.4%
   d) Asian Indian  1.5%  1.8%
   e) Chinese  0.3%  0.2%
   f) Filipino  0.3%
   g) Japanese  0.2%
h) Korean
i) Vietnamese
j) Native Hawaiian
k) Guamanian or Chamorro
l) Samoan
m) Other Pacific Islander  0.1%  0.2%
n) Other Asian  0.6%  1.6%
o) Some other Race  3.8%  5.4%
p) Refused (interviewers – probe for response first, but if still refuse, then use this code)  4.6%  4.3%

That’s all the questions I have. Thank you very much for your time. Have a nice evening!