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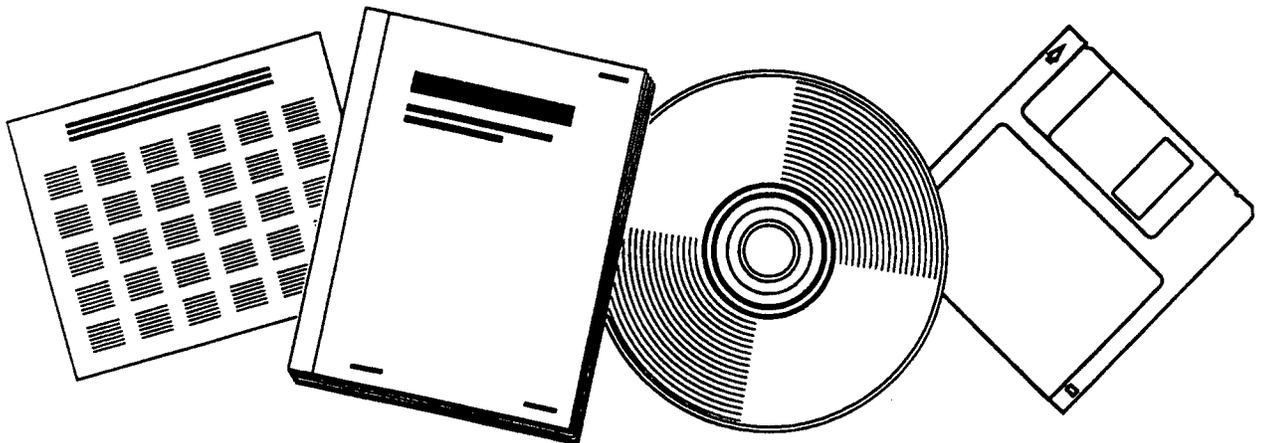
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1996 MOTOR VEHICLE OCCUPANT SAFETY SURVEY  
VOLUME 1 METHODOLOGY REPORT

JUN 97



U.S. DEPARTMENT OF COMMERCE  
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**Motor Vehicle  
Occupant Safety Survey**  
**Volume 1:**

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Methodology Report



U.S. Department of Transportation  
**National Highway Traffic Safety  
Administration**

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16. Abstract  <p>This is the first volume in a series of reports summarizing results from the 1996 Motor Vehicle Occupant Safety Survey. The survey is conducted on a biennial basis (initiated in 1994), and is administered by telephone to a randomly selected national sample. Two questionnaires are used, each administered to approximately 4,000 respondents. The survey collects information concerning attitudes, knowledge, and behavior in different occupant protection and highway safety areas. These include safety belts, child safety seats, air bags, (bicyclist and motorcyclist) helmet use, Emergency Medical Services, and crash injury experiences.</p> <p>Volume I describes the methodology used to conduct the survey. It also contains copies of the questionnaires. Other volumes in this series summarize results in specific content areas.</p>					
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## Sample Design

The 1996 Motor Vehicle Occupant Safety Survey, like the baseline Motor Vehicle Occupant Safety Survey in 1994, was conducted by telephone. Hence, the study procedures called for the construction of a national sampling frame of telephone households from which an unbiased population sample could be derived. For each of the two survey instruments (one focusing on safety belts and the other on car seats, with a common core of questions relating to personal characteristics and driving behaviors), a national probability sample was developed. Each sample was composed of approximately 4,000 persons age 16 and older, including oversamples of persons age 16-39. Since the sampling procedures and data collection methodology for the two samples were identical, procedures described in this report for one sample apply to the other as well.

The procedure for developing a population-based sample for this telephone survey involved four stages. The first stage sample involved a population-based sample allocation, distributed in proportion to the geographic distribution of the target population according to the most recent Census estimates. The second stage employed a systematic selection of assigned telephone banks within the geographically stratified first stage sample design. The third stage in the sampling procedure was to conduct a random digit dialing (RDD) sampling of telephone households within the telephone banks selected in the second stage. The fourth stage required the identification and systematic selection of one eligible respondent within each sampled household so that the household sampling frame yielded a population sample of the eligible population. These procedures yielded national estimates of the target population, within specified limits of expected sampling variability, from which valid generalizations can be made to the general public.

## Sample Construction

Most of the statistical formulas associated with sampling theories are based upon the assumption of simple random sampling. Specifically, the statistical formulas for specifying the sampling precision (estimates of sampling variance), given particular sample sizes, are premised on simple random sampling. Unfortunately, random sampling requires that all of the elements in the population have an equal chance of being selected. Since no enumeration of the total population of the United States (or its subdivisions) is available, all surveys of the general public are based upon an approximation of the actual population and survey samples are generated by a process closely resembling true random sampling.

The survey sample was based on a modified stratified random digit dialing method, using an area probability/RDD sample rather than a single-stage/RDD sample. There are several important advantages to using an area probability base: (1) it draws the sample proportionate to the geographic distribution of the target population rather than the geographic distribution of telephone households, which is vital to constructing unbiased population estimates from telephone surveys; (2) it allows greater geographic stratification of the sample to control for known geographic differences in non-response rates; and (3) it facilitates the use of Census estimates of population characteristics to weight the completed sample to correct for other forms of sampling bias. Moreover, the precision of sample estimates is generally improved by stratification.

Hence, as specified for the study design for the survey, the adult household population of the United States was stratified by the ten NHTSA regions. The estimated distribution of the population by stratum was calculated on the basis of the Bureau of the Census, Resident Population of the United States, Regions and States by Selected Age Groups and Sex: April 1, 1990 Census and July 1, 1990 to July 1, 1995 Estimates (release date, August 1996). At the time of the survey, these were the most recent projections of the distribution of adult population by state. Based on these Census data on the geographic distribution of the target population, the total sample was proportionately allocated by stratum. The geographic allocation of the cross-sectional sample for the survey is presented in Table 1.

**TABLE 1**  
**Population Aged 16 and Older by NHTSA Region:**  
**July 1, 1995**

		Population	Cross-Section Proportion	Sample
		201,239,743	100.00%	(3,000)
Region I	CT, ME, MA, NH, RI, VT	10,423,899	5.18	155
Region II	NJ, NY	20,240,842	10.06	302
Region III	DE, DC, MD, PA, VA, WV	21,016,459	10.44	313
Region IV	AL, FL, GA, KY, MS, NC, SC, TN	37,454,000	18.61	558
Region V	IL, IN, MI, MN, OH, WS	36,848,473	18.31	549
Region VI	AR, LA, NM, OK, TX	22,770,789	11.32	339
Region VII	IA, KS, MO, NE	9,489,642	4.72	141
Region VIII	CO, MT, ND, SD, UT, WY	6,285,824	3.12	94
Region IX	AZ, CA, HI, NV	28,824,080	14.32	430
Region X	AK, ID, OR, WA	7,885,735	3.92	118

Source: Resident Population of the United States, Regions and States by Selected Age Groups and Sex: April 1, 1990 Census and July 1, 1990 to July 1, 1995 Estimates, U.S. Bureau of the Census, (release date, August 1996).

Once the sample had been geographically stratified with sample allocation proportionate to population distribution, a sample of assigned telephone banks were randomly selected from an enumeration of the Working Residential Hundred Blocks of the active telephone exchanges within the region. The Working Hundreds Blocks were defined as each block of 100 potential telephone numbers within an exchange that included 3 or more residential listings. (Exchanges with one or two listings were excluded because in most cases such listings represent errors in the published listings).

The use of residential listings to identify working residential exchanges is generally described as "listed assisted" or "truncated" RDD sampling. In a series of empirical studies, Brick, et. al. demonstrated that only about four percent of all telephone households are excluded in national samples using this method. In addition, these studies indicate that the differences between covered and uncovered samples are trivial in most instances. The principal advantage of "list assisted" sampling is that an equal probability systematic sample of telephone numbers can be selected under this procedure and the variances of estimates from the list-assisted sample are usually lower than those from a clustered design like the Mitovsky-Waksberg RDD method.

In the third stage sample, a two digit number was randomly generated by computer for each Working Residential Hundreds Block selected in the second stage sample. This third stage sampling process is the random digit dialing (RDD) component. Every telephone number within the Hundreds Block has an equal probability of selection, regardless of whether it is listed or unlisted.

The third stage RDD sample of telephone numbers was then dialed by SRBI interviewers to determine which were currently working residential household phone numbers. Non-working numbers and non-residential numbers were immediately replaced by other RDD numbers selected within the same stratum in the same fashion as the initial number. Ineligible households (e.g., no adult in the household, language barriers) were also immediately replaced. Non-answering numbers were not replaced until the research protocol (in this study, a five call protocol) was exceeded. However, one or more open numbers per case may have been permitted in order to permit the replicate to be completed within a reasonable period.

#### Screening to Determine Household Eligibility

The sample construction process yielded a population-based, random-digit dialing sample of telephone numbers. The systematic dialing of those numbers to obtain a residential contact yielded an unbiased sample of telephone households. The next step was to select eligible households within the total sample of working numbers.

An adult respondent at each number drawn into the sampling frame was contacted about the composition of the household. Telephone numbers that yielded non-residential contacts such as businesses, churches, and college dormitories, were screened out. Only households, i.e., residences at which any number of related individuals or no more than five unrelated persons living together, were eligible for inclusion in the sample. This minimal screening was only to ascertain that the sample of telephone numbers reached by interviewers are residential households.

#### Selection of Respondent within Household

The multi-stage sampling process described in the previous sections yielded an unbiased national sample of households with telephones, drawn proportionate to the population distribution. The final stage required the selection of one respondent per household for the interview.

A systematic selection procedure was used to select one designated respondent for each household sampled. The "most recent/next birthday method" was used for within household selection

among multiple eligibles. The Within Household Selection Procedure is presented in Figure 1. The CATI system alternated the "most recent" and "next" birthday specification for the selected respondent to avoid a temporal bias for birthdays before (or after) the field period.

**FIGURE 1**  
**Within Household Selection Procedure:**  
**Adult Cross-Section**

TIME START: \_\_\_\_\_ TIME END: \_\_\_\_\_  
DATE: \_\_\_\_\_ BATCH #: \_\_\_\_\_ CATI RESP. #: \_\_\_\_\_  
SAMPLE POINT #: \_\_\_\_\_ GENDER OF RESP.: MALE  FEMALE   
RESP PHONE NUMBER: \_\_\_\_\_  
RESP POSITION IN HOUSEHOLD: \_\_\_\_\_  
INTERVIEWER NAME: \_\_\_\_\_  
THIS INTERVIEW IS A: COMPLETE  CALLBACK FOR COMPLETION   
TERMINATE AT Q. \_\_\_\_\_

-----  
INTRODUCTION TO BE ADMINISTERED TO ANY ADULT HOUSEHOLD MEMBER:

Hello, I'm calling for the U.S. Department of Transportation. We are conducting a study of Americans' attitudes about current driving laws. The interview is completely confidential.

C1. In order to select just one person to interview, could I speak to the person in your household, age 16 and older, who has had the most recent/next birthday?

Respondent is that person [CONTINUE WITH CATI AND ENTER Q.1 AS C1].....1

Other respondent came to phone [CONTINUE WITH CATI AND ENTER Q.1 AS C1].....2

Respondent is not available

[ARRANGE CALLBACK AND RECORD IT, ALONG WITH THE  
RESPONDENT'S FIRST NAME OR HH POSITION, ON THE SAMPLE SHEET.  
ATTACH THIS SHEET TO SAMPLE AFTER FILLING OUT APPLICABLE  
RESPONDENT INFO AT THE TOP. WHEN THE NEXT INTERVIEWER  
REACHES THIS PERSON, THEY WILL ENTER Q.1 AS C1].....3

### Young Adult Oversample

The survey design specified an oversample of 16-39 year olds in the achieved sample in order to permit more detailed analysis of this subset of the population. A random sample of all persons age 16 and over in an RDD sample of 4,000 households yields too few individuals in this range to allow very close examination. Therefore, to increase the subsample sizes of the 16-39 year olds, within a projectable national sample, an independent national sample was conducted of that population. The allocation of sample by region for the young adult oversample is proportional to the regional distribution of that population. The household selection procedures through RDD is the same for the oversample as for the national cross-sectional sample.

The screening criteria for the oversample were different from the simple cross-section in that households were screened for persons age 16 to 39. This systematic screening of a national probability sample of households for a subset of the total household population should yield an unbiased sample of that population. As in the case of the simple cross-sectional sample, if there were only one eligible respondent in the household then he or she was selected. If there were more than one eligible respondent, then the "most recent/next birthday" method of selection was used. The oversample screener script is presented in Figure 2.

**FIGURE 2**  
**Within Household Selection Procedure:**  
**Young Adult Oversample**

TIME START: \_\_\_\_\_ TIME END: \_\_\_\_\_  
DATE: \_\_\_\_\_ BATCH #: \_\_\_\_\_ CATI RESP. #: \_\_\_\_\_  
SAMPLE POINT #: \_\_\_\_\_ GENDER OF RESP.: MALE  FEMALE   
RESP PHONE NUMBER: \_\_\_\_\_  
RESP POSITION IN HOUSEHOLD: \_\_\_\_\_  
INTERVIEWER NAME: \_\_\_\_\_

THIS INTERVIEW IS A: COMPLETE  CALLBACK FOR COMPLETION   
TERMINATE AT Q. \_\_\_\_\_

-----  
**INTRODUCTION TO BE ADMINISTERED TO ANY ADULT HOUSEHOLD MEMBER:**

Hello, I'm calling for the U.S. Department of Transportation. We are conducting a study of Americans' attitudes about current driving laws. The interview is completely confidential.

D1. Is there anyone age 16 to 39 years old living in your household?

- |----- Yes [ASK Q.D2].....1
- |        No [SCREEN OUT - D1 AGE].....2
- |

D2. Could I speak to the person in your household, age 16 to 39, who has had the most recent/next birthday?

Respondent is that person [CONTINUE WITH CATI AND ENTER Q.1 AS D2].....1

Other respondent came to phone [ CONTINUE WITH CATI AND ENTER Q.1 AS D2].....2

Respondent is not available [ARRANGE CALLBACK AND RECORD IT, ALONG WITH THE RESPONDENT'S FIRST NAME OR HH POSITION, ON THE SAMPLE SHEET. ATTACH THIS SHEET TO SAMPLE AFTER FILLING OUT APPLICABLE RESPONDENT INFO AT THE TOP. WHEN THE NEXT INTERVIEWER REACHES THIS PERSON, THEY WILL ENTER Q.1 AS D2].....3

Table 2 presents the national population figures and projected sample distribution by age and sex for the total sample of 4,000 respondents, including the cross-sectional sample of 3,000 respondents and the oversample of 1,000 persons age 16-39.

**TABLE 2**  
**Population and Expected Sample Distribution\***

	Population		Sample		
	Total Population (thousands)	%	Cross-Sectional Sample	Young Adult Sample	Total
Total (16+)	201,307	100	3,000	1,000	4,000
Males (16+)	96,818	48.1	1,443	503	1,946
16-20	9,142	4.5	135	96	231
21-29	16,773	8.3	249	176	425
30-39	21,995	10.9	327	231	558
40-64	35,230	17.5	525	-	525
65+	13,678	6.8	204	-	204
Females(16+)	104,488	51.9	1557	497	2,054
16-20	8,706	4.3	129	91	220
21-29	16,516	8.2	246	173	419
30-39	22,166	11.0	330	233	563
40-64	37,234	18.5	555	-	555
65+	19,866	9.9	297	-	297

\* Source: Population Projections of the United States by Age, Sex, Race and Hispanic Origin: 1995 to 2050. Bureau of the Census. Middle Series estimates for July 1, 1996.

### Initial Contact

Initial telephone contact was attempted during the hours of the day and days of the week which have the greatest probability of respondent contact. The primary interviewing period was from 5:30 p.m. to 10:00 p.m. on weekdays, from 9:00 a.m. to 10:00 p.m. on Saturdays, and from 10:00 a.m. to 10:00 p.m. on Sundays (all times are local time). Since interviewing was conducted across time zones, the interviewing shift lasted until 1:00 a.m. Eastern Time (10:00 p.m. Pacific Time).

If the interview was not conducted at the time of initial contact, the interview was rescheduled at a time convenient to the respondent. Although initial contact attempts were made on evenings and weekends, daytime interviews were scheduled when necessary. If four telephone contacts on the night and weekend shifts did not elicit a respondent contact, the fifth contact was attempted on a weekday.

Interviewers attempted a minimum of five calls to each telephone number. When the household was reached, the interviewer asked to speak to an adult to screen the household for eligibility and to determine the designated respondent. When the designated respondent was reached but an interview at that time was inconvenient or inappropriate, interviewers set up appointments with respondents. When contact was made with the household, but not the designated respondent(s), interviewers probed for appropriate callback times and attempted to set up an appointment.

### Spanish Language Interviews

Spanish language versions of the two survey instruments were developed in order to eliminate language barriers for a small proportion of the U.S. adult population. If the interviewer encountered a language barrier at the telephone number, either with the person answering the phone or with the designated respondent, the interviewer thanked the person and terminated the call. If the case was designated as Spanish language, it was turned over to the next available Spanish-speaking interviewer.

All households in which a language barrier (Spanish) was encountered were assigned to a Spanish-speaking interviewer. These bilingual interviewers recontacted the Spanish-speaking households to screen for eligibility and conduct interviews with eligible respondents.

### Refusal Conversion

The process of converting terminations and refusals, once they had occurred, involved the following steps. First, there was a diagnostic period, when refusals and terminations were reported on a daily basis and the Project Director and Operations Manager reviewed them after each shift to see if anything unusual was occurring. Second, after enough time had passed to see a large enough sample of refusals and terminations, the Project Director and his staff developed a refusal conversion script. Third, the refusal conversion effort was fielded with reinterview attempts scheduled about a week after the initial refusal. Fourth, the Project Director and Operations Manager received the outcomes of the refusal conversion efforts on a daily basis. Minor revisions of the script and the procedures were made, as needed. The final refusal conversion script is shown in Figure 3, on the following two pages.

### FIGURE 3 Refusal Conversion Script

Hello, my name is \_\_\_\_\_. I am a field supervisor with SRBI, a national research organization in New York. I believe that someone in your household may have been contacted by one of our interviewers concerning a public policy study that we are conducting for the U.S. Department of Transportation in Washington, D.C.

Yes, respondent.....1

Yes, other.....2

No, don't recall.....3

1. In order to assess the effectiveness of current traffic laws, the U.S. Department of Transportation is conducting a study of Americans' attitudes about current driving laws. It is a public opinion study that will help the government to consider traffic laws in light of what the public really wants and does. It only takes about fifteen minutes and it's strictly confidential.

Willing to proceed.....1 GO TO SELECTION GRID

Refuses.....2

2. I understand. My job as a field supervisor is to find out if there are any problems with our surveys or interviewers that are discouraging people from participating. Could you tell me if we have done something wrong or is there something about the interview that concerns you?

IF: I don't do surveys.

ANSWER: I understand, but this is the first survey to really examine whether our traffic laws are realistic and appropriate in terms of what people really want and really do. The results will be presented to Congress and may affect laws in your state. It is really important.

IF: I don't have time.

ANSWER: It doesn't take very long and we can schedule it at a time convenient to you. We need to represent the opinions of busy people like you, as well as people who have more time, if we are to present an accurate picture to Congress of what the public thinks and wants.

IF: I don't know if you are who you say you are.

ANSWER: I can give you our 800 number to call and confirm the authenticity of the study.

IF: I don't know how the results will be used.

ANSWER: The Department of Transportation has been charged by the Congress to report to them about public opinion and behavior related to traffic laws, in order to assist them in determining whether certain laws should be changed or not. That's why we need to talk to you.

**FIGURE 3**  
**Refusal Conversion Script**  
(continued)

IF: I don't drive.

ANSWER: Then the interview should only take a few minutes. Even if you don't drive, we need to get your opinion about some traffic laws that may affect you as a pedestrian. We also need a little background about non-drivers, but it won't take long at all.

IF: Don't know enough.

ANSWER: This is an opinion survey about driving, traffic safety and traffic laws based on your experience. We need to talk to all kinds of people to get a true picture of what ordinary Americans think, not just what "experts" say.

IF: I don't want the government to know about me/ what I do.

ANSWER: The interview is strictly confidential. Your telephone number was selected at random. As soon as we complete the interview and verify it, we destroy the phone number. No one will ever know who you are. We do this so that you can be comfortable in telling us what you really think, not what you think the government wants to hear.

IF: It's a bad time.

ANSWER: We can schedule a callback for a time that would be good for you.

Date \_\_\_\_\_ Time \_\_\_\_\_

**IF STILL HESITANT SAY:**

It is really important that we represent the views and experience of people like yourself so that the findings will be fair and accurate. You don't often get a chance to participate in studies that may affect the laws in your community. It's really important and we really want to represent your household in the study. If now is a bad time, we can schedule interview during the day, in the evening, or on the weekend whenever is better for you.

**(IF SUGGESTS A TIME MORE THAN TWO WEEKS HENCE:**

We are supposed to finish the study by the end of November. Could we find some time this week (or next) to do the interview?)

Date \_\_\_\_\_ Time \_\_\_\_\_

**IF AGREEABLE, GO TO THE SELECTION GRID.**

**IF STILL REFUSES, THANK AND COMPLETE.**

Field Outcomes

The field interviewing for the study commenced on November 4, 1996, following training of the field interviewers, and was completed on January 5, 1997. This is approximately the same time period in which the 1994 Occupant Protection Survey was conducted (October 5, 1994-December 11, 1994). Status of cases as of the end of the field period are reported using the categories defined below.

**FIGURE 4**  
**Sample Disposition Categories**

NIS/DIS/change #	The number was not in service, had been disconnected, or yielded a recording indicating that it was no longer an active number
Non-residential	The number yielded a contact with a business, government agency, pay telephone, or other non-residential unit
Computer/fax	The number yielded an electronic tone indicating a fax machine or data line
No answer	The number rang, but no one answered
Busy	A busy signal was encountered
Answering machine	An answering machine was reached at the telephone number
Language	The interview could not be completed because of language barriers
Away for duration	The designated respondent was out of the area for the entire field period
Callback	Contact was made with the household, but not necessarily the designated respondent. By the end of the field period, the case had neither yielded a refusal or completed interview
Callback to complete	The interview was interrupted, but not terminated. The field period ended before the full interview could be completed
Refusal -- Initial	Someone in the household refused to participate in the study
Refusal -- Second	During a refusal conversion attempt, a second refusal to participate in the study was encountered
Terminate	A respondent began the interview but refused to finish
Complete	An interview was completed with the designated respondent

For survey Version 1 - Safety Belt Usage Issues, a total of 15,339 randomly selected telephone numbers were sampled within a geographically stratified national sampling frame for both sample components (the cross-section of youth and adults age 16 and older and the oversample of persons age 16-39):

- 23% of the numbers were not active residential phone numbers, including 8% not-in-service, 12% business or government, and 3% computer or fax tones;
- 14% of the numbers were no answers (despite repeated attempts) and 5% were answering machines; and
- 2% were households in which the designated respondent was not interviewable (away for an extended period, incapacitated, or deaf) and an additional 1% were non-interviewable due to language barriers (non-Spanish).

At the close of the field period, only 641 cases (4%) were in callback status.

The participation rate represents one of the most critical measures of potential sample bias because it indicates the degree of self-selection by potential respondents into or out of the survey. The participation rate is calculated as the number of completed interviews (including respondents who screen out as ineligible) divided by the combined total number of completed interviews, terminated interviews, and refusals to interview. (The inclusion of screen outs in the numerator and denominator is mathematically equivalent to discounting the refusals by the estimated rate of non-eligibility among refusals.) The participation rate for Version 1 is based on the following elements:

- 4,188 completed interviews;
- 2,016 cases in which someone in the household completed the household screen, but no one in the household was found to be eligible for the full interview (1959 were age-related screen-outs among the age 16-39 oversample); and
- 1,275 refusals to be interviewed (including 832 second refusals) and 228 terminated interviews.

Based on the standard calculations of participation rate, the participation rate for Version 1 was 80.5%.

The Final Summary Disposition of the Version 1 sample is given in Table 3. The table includes breakouts for each survey component (national youth and adult cross-section and the age 16-39 oversample). The average interview length for Version 1 was 24.8 minutes.

**TABLE 3**  
**Sample Disposition:**  
**Version 1, Safety Belt Usage Issues**

	<b>CROSS- SECTION</b>	<b>OVER- SAMPLE</b>	<b>TOTAL</b>
<b>TOTAL NUMBERS DIALED</b>	<b>8981</b>	<b>6358</b>	<b>15339</b>
NIS/Dis/Change#/Wrong#	690	553	1243
Non-residential	1068	729	1797
Computer/fax	247	199	446
Duplicates	0	0	0
Other Reason Terminating	26	16	42
No Answer	1291	833	2124
Answering Machine	477	325	802
Busy	48	32	80
Callback	158	63	221
Not Available	315	105	420
Language	78	38	116
Health/Deaf/Deceased	220	42	262
Away for Duration	53	26	79
Refusals -- Initial	314	129	443
Refusals -- Second	616	216	832
Total Contacts	3380	3052	6432
Screen out	57	1959	2016
Total Qualified	3323	1093	4416
Callback to Complete	0	0	0
Terminates	186	42	228
Completes	3137	1051	4188
Participation Rate	74.1%	88.6%	80.5%

For survey Version 2 - Child Safety Seat Issues, a total of 14,963 randomly selected telephone numbers were sampled within a geographically stratified national sampling frame for both sample components (the cross-section of youth and adults age 16 and older and the oversample of persons age 16-39):

- 22% of the numbers were not active residential phone numbers, including 8% not-in-service, 12% business or government, and 3% computer or fax tones;
- 14% of the numbers were no answers (despite repeated attempts) and 5% were answering machines; and
- 2% were households in which the designated respondent was not interviewable (away for an extended period, incapacitated, or deaf) and an additional 1% were non-interviewable due to language barriers (non-Spanish).

At the close of the field period, there were 677 cases (5%) in callback status.

The participation rate for Version 2 is based on the following elements:

- 4,022 completed interviews;
- 2,015 cases in which someone in the household completed the household screen, but no one in the household was found to be eligible for the full interview (1949 were age-related screen-outs among the age 16-39 oversample); and
- 1,468 refusals to be interviewed (including 877 second refusals) and 224 terminated interviews.

Based on the standard calculations of participation rate, the participation rate for Version 2 was 78.1 percent.

The Final Summary Disposition of the Version 2 sample is given in Table 4, on the next page. The table includes breakouts for each survey component (national youth and adult cross-section and the age 16-39 oversample).

For the two survey versions combined (including both the national youth and adult cross-sections and the age 16-39 oversamples), the participation rate, based on 8210 completed interviews, 2743 refusals, 452 terminations, and 4031 screen-outs, was 79.3 percent. The average interview length for Version 2 was 22.8 minutes.

**TABLE 4**  
**Sample Disposition:**  
**Version 2, Child Safety Seat Issues**

	<b>CROSS- SECTION</b>	<b>OVER- SAMPLE</b>	<b>TOTAL</b>
<b>Total Numbers Dialed</b>	<b>8875</b>	<b>6088</b>	<b>14963</b>
NIS/Dis/Change#/Wrong#	637	509	1146
Business #	1071	654	1725
Computer/Fax Tone	238	162	400
Duplicates	0	0	0
Other Reason Terminating	24	21	45
No Answer	1273	777	2050
Answering Machine	470	282	752
Busy	51	25	76
Callback	163	48	211
Not Available	373	93	466
Language	63	17	80
Health/Deaf/Deceased	195	43	238
Resp. Away for Duration	28	17	45
Refusals	469	122	591
Second Refusals	569	308	877
Total Contacts	3251	3010	6261
Screen out	66	1949	2015
Total Qualified	3185	1061	4246
Callback to Complete	0	0	0
Terminates	167	57	224
Completes	3018	1004	4022
Participation Rate	71.9%	85.8%	78.1%

### Sample Weighting

The characteristics of a perfectly drawn sample of a population will vary from true population characteristics only within certain limits of sample variability (i.e., sampling error). Unfortunately, social surveys do not permit perfect samples. The sampling frames available to survey research are less than perfect. The absence of perfect cooperation from sampled units means that the completed sample will differ from the drawn sample. In order to correct these known problems of sample bias, the achieved sample is weighted to certain characteristics of the total population. Each of the survey samples was weighted separately.

The weighting plan for the survey was a multi-stage sequential process of weighting the achieved sample to correct for sampling and non-sampling biases in the final sample. The first stage in the sample weighting procedures was designed to correct the cases in the completed sample for known selection biases in the sampling procedures. At the household selection stage, a random digit dialing process will give households with more than one telephone number an unequal likelihood of selection. Nationally, about 18% percent of households selected by random digit dialing will have more than one telephone number. This selection bias was corrected by giving each household a first stage weight equal to the inverse of the number of different telephone numbers in the household, up to a maximum of three phone numbers..

The second step in the weighting process was to correct for selection procedures that yielded unequal probability of selection within sampled households. Although the survey was designed as a population survey, only one eligible person per household could be interviewed (because multiple interviews per household are burdensome and introduce additional design effects into the survey estimates). A respondent's probability for selection is inverse to the size (number of other eligible adults) of the household. Hence, the second stage weight was equal to the number of eligible respondents within the household.

The next step in the weighting process was to correct the study design for deliberate disproportionate selection of younger population subsets in the sample design. The survey included both a cross-sectional sample of 3,000 respondents, aged 16 and older, and an oversample of 1,000 persons, aged 16 to 39 years old. Hence, the total achieved sample yielded a disproportionate sample distribution by age. A third stage weight was used to correct the achieved sample for disproportionate sampling by dividing the expected population distribution, based on Census projections, by the achieved sample distribution on the stratification variables. Specifically, the third stage weight corrected the sample to the cell distribution of the population for five age cohorts (16-20, 21-29, 30-39, 40-64, and 65 or older) by gender, using the Census Population Projections for Age, Sex and Race for 1996. After these corrections were made, no further weighting by other Census characteristics (e.g., race) was considered necessary or desirable.

**FIGURE 5**  
**SPSS Program for Assigning Weights**

```

COMPUTE YADULTS=RESP#.
RECODE YADULTS (7 THRU 97=7)(99=1).
COMPUTE CATAGE=V1Q197.
RECODE CATAGE (16 THRU 20=1)(21 THRU 29=2)(30 THRU 39=3)
(40 THRU 64=4)(65 THRU 97=5).
VALUE LABELS CATAGE 1 '16-20' 2 '21-29' 3 '30-39' 4 '40-64' 5 '65+'
99 'REFUSED'.
COMPUTE SAMTYPE2=SAMTYPE.
IF ((SAMTYPE EQ 2) AND (CATAGE EQ 4 OR CATAGE EQ 5)) SAMTYPE2=1.
VALUE LABELS SAMTYPE2 1 'CROSS-SECTION' 2 'OVERSAMPLE'.
COMPUTE NADULTS=1.
IF (VERSION EQ 1) NADULTS=(V1Q198+1).
IF (VERSION EQ 2) NADULTS=V1Q198.
RECODE NADULTS (10 THRU 96=10)(99, 100=1).
COMPUTE NPHONES=V1Q223.
RECODE NPHONES (SYSMIS=1)(4 THRU 10=3)(11 THRU HIGHEST=1).
COMPUTE WEIGHT1=(1/NPHONES).
COMPUTE WEIGHT2=1.
IF (SAMTYPE2 EQ 1) WEIGHT2=NADULTS.
IF (SAMTYPE2 EQ 2) WEIGHT2=YADULTS.
COMPUTE WEIGHT3=(WEIGHT1*WEIGHT2).
MISSING VALUE CATAGE (99).
COMPUTE AGESEX1=1.
IF (CATAGE EQ 1 AND V1Q225 EQ 2) AGESEX1=.738.
IF (CATAGE EQ 2 AND V1Q225 EQ 2) AGESEX1=.971.
IF (CATAGE EQ 3 AND V1Q225 EQ 2) AGESEX1=.743.
IF (CATAGE EQ 4 AND V1Q225 EQ 2) AGESEX1=1.074.
IF (CATAGE EQ 5 AND V1Q225 EQ 2) AGESEX1=1.697.
IF (CATAGE EQ 1 AND V1Q225 EQ 1) AGESEX1=.809.
IF (CATAGE EQ 2 AND V1Q225 EQ 1) AGESEX1=.952.
IF (CATAGE EQ 3 AND V1Q225 EQ 1) AGESEX1=.791.
IF (CATAGE EQ 4 AND V1Q225 EQ 1) AGESEX1=1.097.
IF (CATAGE EQ 5 AND V1Q225 EQ 1) AGESEX1=1.803.
IF (VERSION EQ 2) AGESEX1=0.
COMPUTE AGESEX2=1.
IF (CATAGE EQ 1 AND V1Q225 EQ 1) AGESEX2=.705.
IF (CATAGE EQ 2 AND V1Q225 EQ 1) AGESEX2=.924.
IF (CATAGE EQ 3 AND V1Q225 EQ 1) AGESEX2=.870.
IF (CATAGE EQ 4 AND V1Q225 EQ 1) AGESEX2=1.146.
IF (CATAGE EQ 5 AND V1Q225 EQ 1) AGESEX2=1.569.
IF (CATAGE EQ 1 AND V1Q225 EQ 2) AGESEX1=.787.
IF (CATAGE EQ 2 AND V1Q225 EQ 2) AGESEX1=.855.

```

The final step in the weighting process was designed to correct for the fact that the total number of cases in the weighted sample was larger than the unweighted sample size because of the use of the number of eligibles weight. In order to avoid misinterpretation of sample size, the total number of cases in the unweighted sample was divided by the total number of cases in the weighted sample to yield a sample size weight. When this weight is applied, the size of the weighted sample is identical to the size of the unweighted sample.

The final weight (WEIGHT5) incorporates all of the intermediate weighting steps described above. The final weight adjusts the 8210 completed interviews in the achieved sample to correct for known sampling and participation biases, while maintaining the unweighted sample size.

### Precision of Sample Estimates

The objective of the sampling procedures used on this study was to produce an unbiased sample of the target population. An unbiased sample shares the same properties and characteristics of the total population from which it is drawn, subject to a certain level of sampling error. This means that with a properly drawn sample we can make statements about the properties and characteristics of the total population within certain specified limits of certainty and sampling variability.

The confidence interval for sample estimates of population proportions, using simple random sampling without replacement, is calculated by the following formula:

$$\text{var (x)} = z \sqrt{\frac{p (q)}{n - 1}}$$

Where:

- var (x) = the expected sampling error of the mean of some variable, expressed as a proportion
- p = some proportion of the sample displaying a certain characteristic or attribute
- q = (1 - p)
- z = the standardized normal variable, given a specified confidence level (1.96 for samples of this size).
- n = the size of the sample

The sample sizes for the surveys are large enough to permit estimates for subsamples of particular interest. Table 5, on the next page, presents the expected size of the sampling error for specified sample sizes of 8,000 and less, at different response distributions on a categorical variable. As the table shows, larger samples produce smaller expected sampling variances, but there is a constantly declining marginal utility of variance reduction per sample size increase.

**TABLE 5**  
**Expected Sampling Error (Plus or Minus)**  
**At the 95% Confidence Level**  
**(Simple Random Sample)**

Percentage of the Sample or Subsample Giving  
A Certain Response or Displaying a Certain  
Characteristic for Percentages Near:

Size of Sample or Subsample	<u>10 or 90</u>	<u>20 or 80</u>	<u>30 or 70</u>	<u>40 or 60</u>	<u>50</u>
8,000	0.7	0.9	1.0	1.1	1.1
4,000	0.9	1.2	1.4	1.5	1.5
3,000	1.1	1.4	1.6	1.8	1.8
2,000	1.3	1.8	2.0	2.1	2.2
1,500	1.5	2.0	2.3	2.5	2.5
1,300	1.6	2.2	2.5	2.7	2.7
1,200	1.7	2.3	2.6	2.8	2.8
1,100	1.8	2.4	2.7	2.9	3.0
1,000	1.9	2.5	2.8	3.0	3.1
900	2.0	2.6	3.0	3.2	3.3
800	2.1	2.8	3.2	3.4	3.5
700	2.2	3.0	3.4	3.6	3.7
600	2.4	3.2	3.7	3.9	4.0
500	2.6	3.5	4.0	4.3	4.4
400	2.9	3.9	4.5	4.8	4.9
300	3.4	4.5	5.2	5.6	5.7
200	4.2	5.6	6.4	6.8	6.9
150	4.8	6.4	7.4	7.9	8.0
100	5.9	7.9	9.0	9.7	9.8
75	6.8	9.1	10.4	11.2	11.4
50	8.4	11.2	12.8	13.7	14.0

NOTE: Entries are expressed as percentage points (+ or -)

The sampling design included a separate, concurrently administered oversample of youth and young adults (age 16-39). Both the cross-sectional sample and the oversample of the youth/younger adult population were drawn as simple random samples; however, the disproportionate sampling of the age 16-39 population introduces a design effect that makes it inappropriate to assume that the sampling error for total sample estimates will be identical to those of a simple random sample.

To assess the design effect for sample estimates, we have calculated sampling errors for the disproportionate sample for twelve of the key behavioral variables (Table 6). These estimates were

then compared to the sampling errors for the same variables, assuming a simple random sample of the same size. Overall, the disproportionate sampling increase the confidence interval by about 2%, compared to a simple random sample of the same size. This means that sample design introduces almost no measurable loss in sampling precision for total population estimates, while increasing the precision of sampling estimates for the target population aged 16-39 years old. Since the difference in sampling precision between the stratified disproportion sample and a simple random sample is less than one tenth of one percentage point in each case, the sampling error table for a simple random sample will provide a reasonable approximation of the precision of sampling estimates in the survey.

**TABLE 6**  
**Design Effect on Confidence Intervals for Sample Estimates**  
**Between Disproportionate Sample Used in Occupant Protection Survey**  
**And a Proportionate Sample of Same Size**

	----- CONFIDENCE INTERVALS ----- PERCENTAGE POINTS $\pm$ AT 95% CONFIDENCE LEVEL		
	HYPOTHETICAL PROPORTIONATE SAMPLING*	CURRENT DIS- PROPORTIONATE SAMPLING	DIFFERENCE IN CONFIDENCE INTERVALS ABOUT ESTIMATES
<i>USE NEW VARIABLES</i>			
<i>Driven in the past year</i>	.55	.57	+3.6%
<i>Drunk alcohol in past year</i>	1.03	1.06	+2.9%
<i>Always use safety belt</i>	.98	1.00	+2.0%
<i>Dislike seat belts</i>	1.53	1.58	+3.3%
<i>Always use passenger belt (front)</i>	1.40	1.40	0.0%
<i>Favor (a lot) seat belt laws</i>	1.47	1.50	+2.0%
<i>Secondary enforcement</i>	1.56	1.60	+2.6%
<i>Ever ticketed by police for seatbelt</i>	.81	.77	- 4.9%
<i>OK to go 60 in 55 mph zone</i>	1.46	1.51	+3.4%
<i>Recall Crash dummies</i>	1.05	1.09	+3.8%
<i>Ever injured in vehicle accident</i>	.92	.96	+4.3%
<i>AVERAGE DIFFERENCE IN CONFIDENCE INTERVALS</i>			+ 2.09%

\* Total sample proportions using SRS formula

Given extremely small differences in the confidence intervals for this sample and those expected for a simple random sample, the general formula for estimating confidence intervals for a simple random sample will normally be a perfectly reasonable guide for estimating sampling error for this sample. However, in order to conduct a specific interval for estimates from sample, the appropriate statistical formula for calculating the allowance for sampling error (at a 95% confidence interval) in a stratified sample is:

$$ASE = 1.96 \sqrt{\sum_{h=1}^g W_h^2 \{(1-f_h) (s_h^2/n_h - 1)\}}$$

where:

- ASE = allowance for sampling error at the 95% confidence level;
- h = a sample stratum;
- g = number of sample strata;
- w<sub>h</sub> = stratum h as a proportion of total population;
- f<sub>h</sub> = the sampling fraction for group h -- the number in the sample divided by the number in the universe;
- s<sub>h</sub><sup>2</sup> = the variance in the stratum h -- for proportions this is equal to p<sub>h</sub> (1.0 - p<sub>h</sub>);
- n<sub>h</sub> = the sample size for the stratum h.

Although Table 5 provides a useful approximation of the magnitude of expected sampling error, precise calculation of allowances for sampling error requires the use of this formula.

### Estimating Statistical Significance

The estimates of sampling precision presented in the previous section yield confidence bands around the sample estimates, within which the true population value should lie. This type of sampling estimate is appropriate when the goal of the research is to estimate a population distribution parameter. However, the purpose of some surveys is to provide a comparison of population parameters estimated from independent samples (e.g. annual tracking surveys) or between subsets of the same sample. In such instances, the question is not simply whether or not there is any difference in the sample statistics which estimate the population parameter, but rather is the difference between the sample estimates statistically significant (i.e., beyond the expected limits of sampling error for both sample estimates).

To test whether or not a difference between two sample proportions is statistically significant, a rather simple calculation can be made. Call the total sampling error (i.e., var (x) in the previous formula) of the first sample  $s_1$  and the total sampling error of the second sample  $s_2$ . Then, the sampling error of the difference between these estimates is  $sd$  which is calculated as:

$$sd = \sqrt{s_1^2 + s_2^2}$$

Any difference between observed proportions that exceeds  $sd$  is a statistically significant difference at the specified confidence interval. Note that this technique is mathematically equivalent to generating standardized tests of the difference between proportions.

An illustration of the pooled sampling error between subsamples for various sizes is presented in Table 7. This table can be used to indicate the size of difference in proportions between drivers and non-drivers or other subsamples that would be statistically significant.

**TABLE 7**  
**Pooled Sampling Error Expressed as Percentages**  
**For Given Sample Sizes (Assuming P=Q)**

Sample Size

2,000	10.0	7.2	6.1	5.4	4.9	4.6	4.3	4.1	4.0	3.8	3.1
1,000	10.3	7.6	6.5	5.8	5.4	5.1	4.9	4.7	4.5	4.4	
900	10.3	7.6	6.6	5.9	5.5	5.2	5.0	4.8	4.7		
800	10.4	7.7	6.7	6.0	5.6	5.3	5.1	5.0			
700	10.5	7.8	6.8	6.1	5.8	5.4	5.2				
600	10.6	8.0	7.0	6.3	5.9	5.7					
500	10.7	8.2	7.2	6.6	6.2						
400	11.0	8.5	7.5	6.9							
300	11.3	9.0	8.1								
200	12.0	9.8									
100	13.9										

---

Sample

Size    100   200   300   400   500   600   700   800   900   1000   2000

### Statistical Comparisons between Samples

In order to permit statistical comparisons between the two samples, the data sets from the two separate samples were merged together on like questions. The sample versions (1 for Safety Belt Usage and 2 for Child Safety Seats) were crosstabulated with each of the survey questions which had been asked in an equivalent fashion in the two samples. A chi square test was conducted for each of these crosstabulations to test for the independence of samples.

An exact test of independence was calculated to test the differences between the two samples. Pearson's chi square is a widely used statistic to test the hypothesis that the row and column variables are independent. It is calculated by summing over all cells the squared residuals divided by the expected frequencies. The calculated chi-square is compared to the critical points of the theoretical chi-square distribution to produce an estimate of how likely (or unlikely) this calculated value is, if the two variables are in fact independent. This probability is also known as the observed significance level of the test. If the probability is small (usually less than 0.05), the hypothesis that the two variables are independent is rejected.

No statistically significant difference (at the .05 level) was found between the two samples on most demographic characteristics, including race, ethnicity (Hispanic), educational attainment, marital status, and employment status. There is no difference between samples on most vehicle characteristics (e.g., airbags, type of seatbelts) or driver behaviors (e.g., drive everyday, always wear seatbelts).

There are, nonetheless, a limited set of differences large enough to be statistically significant with samples of this size. The sample estimates of non-drivers (past year) are slightly higher in the Seatbelt Survey (8.5%) than the Child Safety Survey (7.0%). The reported income in the second survey is somewhat lower than the first survey, apparently as a result of lower missing values (not sure and refusal) in the second survey. Finally, although the proportion of past month drinkers is the same in the two surveys (51.1% to 51.4), the proportion who report driving after drinking in the past month is significantly lower in the Child Safety Survey (22.6%) than the Seatbelt Survey (26.5%). This last difference probably reflects a contextual effect (willingness to report drinking and driving after an intense discussion of child safety in cars) rather than sample differences.

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# **APPENDIX A:**

## **QUESTIONNAIRE**

### **VERSION 1**



SCHULMAN, RONCA AND BUCUVALAS, INC.  
145 EAST 32ND STREET  
NEW YORK, NEW YORK 10016

STUDY NUMBER 6966  
NOVEMBER 11, 1996  
OMB No. 2127-0584

Expiration Date: 9/30/99

SURVEY ON OCCUPANT PROTECTION: 1996  
VERSION 1

SAMPLE READ-IN

Sample Type:  
Cross-section.....1  
Oversample.....2

State: \_\_\_\_\_ County: \_\_\_\_\_ Metro Status: \_\_\_\_\_

Date: \_\_\_\_\_ CATI ID: \_\_\_\_\_

Interviewer: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time End: \_\_\_\_\_ TOTAL TIME: \_\_\_\_\_

INTRODUCTION

Hello, I'm \_\_\_\_\_ calling for the U.S Department of Transportation.

We are conducting a study of Americans' attitudes about current driving laws.  
The interview is completely confidential.

DUMMY QUESTION FOR BIRTHDAY QUESTIONS

Has had the most recent.....1  
Will have the next.....2

IF SAMPLE TYPE EQ 1, ASK A, ELSE ASK B.

A. In order to select just one person to interview, could I speak to the person in your household, 16 or older, who (has had the most recent/will have the next) birthday?

Respondent is the person.....1      **SKIP TO Q.1**  
Other respondent comes to phone.....2      **SKIP TO D**  
Respondent is not available.....3      **ARRANGE CALLBACK**  
Refused.....4

IF SAMPLE TYPE EQ 2 ASK B

B. Is there anyone aged 16 to 39 years old living in your household?

Yes.....1  
No.....2      **THANK AND SCREEN OUT**

C. Could I speak to the person aged 16 to 39 years old living in your household who (has had the most recent/will have the next) birthday?

Respondent is the person.....1  
Other respondent comes to phone.....2  
Respondent not available.....3      **ARRANGE CALLBACK**  
Refused.....4

D. Hello, I'm \_\_\_\_\_ calling for the U.S. Department of Transportation. We are conducting a study of Americans' attitudes about current driving laws. The interview is completely confidential. It takes fifteen to twenty minutes. Could we begin now?

**CONTINUE INTERVIEW**.....1  
 Arrange Callback.....2  
 Refused.....3

Q1. How often do you drive a motor vehicle? Almost every day, a few days a week, a few days a month, a few days a year, or do you never drive?

Almost every day.....1  
 Few days a week.....2  
 Few days a month.....3  
 Few days a year.....4  
 Never.....5 **SKIP TO Q.30**  
 Other.....6  
 (SPECIFY)  
 (VOL) Don't know.....7  
 (VOL) Refused.....8

Q.2 Do you at least sometimes drive a vehicle as part of a job or business? Do not include driving to and from work.

Yes.....1  
 No.....2 **SKIP TO Q.6**  
 Don't work.....3 **SKIP TO Q.6**  
 (VOL) Not sure.....4 **SKIP TO Q.6**  
 (VOL) Refused.....5 **SKIP TO Q.6**

Q.3 How often do you drive a vehicle as part of a job or business? Almost every day, a few days a week, a few days a month, or a few days a year?

Almost every day.....1  
 Few days a week.....2  
 Few days a month.....3  
 Few days a year.....4  
 (VOL) Never.....5  
 Other.....6  
 (SPECIFY)  
 (VOL) Don't know.....7  
 (VOL) Refused.....8

Q.4 Does your company or business have a policy requiring seat belt use when driving on the job?

Yes.....1  
 No.....2 **SKIP TO Q.6**  
 (VOL) Not sure.....3 **SKIP TO Q.6**  
 (VOL) Refused.....4 **SKIP TO Q.6**

Q.5a Is that a written policy?

Yes.....1  
 No.....2  
 (VOL) Not sure.....3  
 (VOL) Refused.....4

Q.5b How strictly does your company enforce its policy about wearing seatbelts? Is the policy enforced....

- Very strictly.....1
  - Somewhat strictly.....2
  - Not too strictly.....3
  - Not at all.....4
  - (VOL) Not sure...5
- SKIP TO Q6**  
**SKIP TO Q6**

Q.5c How does your company enforce its seatbelt policy?

Q.6 Comparing your driving to other drivers, would you say you are average, better than average or below average?

- Average.....1
- Better than average.....2
- Below average.....3
- (VOL) Not sure.....4
- (VOL) Refused.....5

Q.7 Now I'd like you to think about all the driving you do (whether or not it's part of your job). Is the vehicle you drive most often a car, van, motorcycle, pickup truck, or other type of truck? (NOTE: IF RESPONDENT DRIVES MORE THAN ONE VEHICLE OFTEN, ASK:) "What kind of vehicle did you LAST drive?"

- Car.....1
  - Van or minivan.....2
  - Motorcycle.....3
  - Pickup truck.....4
  - Jeep/Explorer/Trooper/etc.....5
  - Other.....10
  - Other truck (SPECIFY).....11
- 
- (VOL) Don't know.....12
  - (VOL) Refused.....13

**IF Q.2=YES AND Q.3=1 OR 2, ASK Q.8, ELSE GO TO Q.9**

Q.8 Do you drive this vehicle only for work, only for personal driving or for both work and personal driving?

- Only for work.....1
- Only for personal use.....2
- For both work and personal driving.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

**IF Q.7=MOTORCYCLE, SKIP TO Q.30, ELSE GO TO Q.9**

Q.9 For the next series of questions, please answer only for the (car/truck/van) you said you usually drive. Do the seat belts in the front seat of the (car/truck/van) go across your shoulder only, across your lap only, or across both your shoulder and lap?

**INTERVIEWER INSTRUCTION: SEATBELT QUESTIONS REFER TO DRIVER-SIDE BELTS.**

- Across shoulder.....1
  - Across lap.....2
  - Across both.....3
  - Vehicle has no belts.....4
  - (VOL) Don't know.....5
  - (VOL) Refused.....6
- SKIP TO Q.12**  
**SKIP TO Q.15**  
**SKIP TO Q.30**  
**SKIP TO Q.16a**  
**SKIP TO Q.16a**

Q.10 Are the shoulder and lap belt one piece or are they two separate belts?

- One piece.....1 **SKIP TO Q.12**
- Two separate belts.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.11 Are both the shoulder and lap belt automatic, is only the shoulder belt automatic or is neither the shoulder or lap belt automatic?

- Both are automatic.....1 **SKIP TO Q.13a**
- Only shoulder is automatic.....2 **SKIP TO Q.13a**
- Neither are automatic.....3 **SKIP TO Q.13b**
- (VOL) Don't know.....4 **SKIP TO Q.13b**
- (VOL) Refused.....5 **SKIP TO Q.13b**

Q.12 Is the shoulder belt automatic or do you have to fasten it?

- Automatic.....1
- Manual.....2 **SKIP TO Q.13b**
- (VOL) Don't know.....3 **SKIP TO Q.13b**
- (VOL) Refused.....4 **SKIP TO Q.13b**

Q.13a When you drive, do you always wear your automatic belt or is it ever disconnected, disabled, or placed behind you?

- Always wear it.....1
- Disconnected.....2
- Disabled.....3
- Placed behind me.....4

Q.13b Shoulder belts are usually attached to the door or frame behind the driver's left shoulder. In some vehicles, this attachment can be moved up or down to adjust the shoulder belt. Is this attachment adjustable in your vehicle?

- Yes, adjustable.....1
- No, not adjustable.....2 **SKIP TO Q14**
- Not sure.....3 **SKIP TO Q14**

Q.13c Have you ever tried to adjusted it?

- Yes.....1
- No.....2 **SKIP TO Q14**

Q.13d Were you able to make the shoulder belt more comfortable by adjusting it?

- Yes.....1
- No, could not adjust it.....2
- No, could not make it more comfortable ..3

**IF Q9=1 OR 3 ASK Q14, ELSE GO TO Q15**

Q.14 When driving this (car/truck/van), how often do you wear your shoulder belt... (READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Don't know.....6

**IF Q9=2 OR 3 ASK Q15, ELSE GO TO Q16a**

Q.15 When driving this (car/truck/van), how often do you wear your lap belt...(READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Don't know.....6

**IF Q.14=1-4,6 OR Q.15=1-4,6 ASK Q.16a ELSE GO TO Q.19**

Q.16a When was the last time you did NOT wear your seat belt when driving?

- Today.....1
- Within the past week.....2
- Within the past month.....3
- Within the past year.....4
- A year or more ago/I always wear it.....5
- (VOL) Don't know.....6
- (VOL) Refused.....7

**ASK Q16b IF DON'T KNOW IN Q16a, ELSE SKIP TO Q16c**

Q.16b Has there been any occasion in the past year when you did not wear your seat belt when driving?

- Yes.....1
- No.....2
- Not sure.....3

**IF Q13a=ALWAYS SKIP TO Q17**

Q16c. When you drive, do you normally (most frequently) put your seat belt on before or after you turn the ignition on?

- Before ignition.....1 **SKIP TO Q17**
- After ignition.....2

Q16d. Do you normally (most frequently) put your seatbelt on before or after the vehicle starts moving?

- Before starts moving.....1 **SKIP TO Q17**
- After starts moving.....2

Q16e. About how far do you usually drive before you buckle up?

---

Q16f. What usually causes you to buckle up at this point?  
**DO NOT READ LIST. MULTIPLE RECORD**

- See police.....1
- Weather.....2
- Stop sign/light.....3
- Traffic.....4
- Others in car.....5
- Other (SPECIFY) .....6

**IF Q.2=YES ASK Q.17 ELSE GO TO Q.19**

Q.17 Are you more likely, less likely or just as likely to wear your seat belt when driving on the job as compared to when driving for personal use?

- More likely.....1
  - Less likely.....2
  - Just as likely.....3
  - (VOL) Don't know.....4
  - (VOL) Refused.....5
- SKIP TO Q.19**  
**SKIP TO Q.19**  
**SKIP TO Q.19**

Q.18 Why are you (more likely/less likely) to wear your belt when driving for work? **MULTIPLE RECORD**

- Company policy.....1
  - #hold.....2
  - #hold.....5
  - #hold.....6
  - #hold.....7
  - Other (SPECIFY).....8
- 
- (VOL) Don't know.....9
  - (VOL) Refused.....10

Q.19 In the past year, has your use of seat belts when driving (car driven most often) increased, decreased, or stayed the same?

- Increased.....1
  - Decreased.....2
  - Stayed the same.....3
  - New driver.....4
  - (VOL) Don't know.....5
  - (VOL) Refused.....6
- SKIP TO Q.21**  
**SKIP TO Q.21**  
**SKIP TO Q.21**  
**SKIP TO Q.21**

Q.20 What caused the change? **(DO NOT READ LIST - MULTIPLE RECORD)**

- Increased awareness of safety.....1
  - Seat belt law.....2
  - Don't want to get a ticket.....3
  - Was in a crash.....4
  - New car with automatic belt.....5
  - Influence/pressure from others.....6
  - #hold.....7
  - #hold.....8
  - Other.....12
- 
- (VOL) Don't know.....13
  - (VOL) Refused.....14

**IF RESPONDENT NEVER WEARS SEAT BELT IN Q.14/15 SKIP TO Q.23 ELSE GO TO Q.21**

Q.21 I'm going to read a list of reasons why you might wear your seat belt. As I'm reading, tell me yes or no whether each reason applies to you. When I wear my seat belt, I do so because... **RANDOMIZE ORDER**

	YES	NO	(VOL) NOT SURE	(VOL) REFUSED
a. IT'S A HABIT.....1		2	3	4
b. I DON'T WANT TO GET A TICKET.....1		2	3	4
c. I'M UNCOMFORTABLE WITHOUT IT.....1		2	3	4
d. OTHERS WANT ME TO WEAR IT.....1		2	3	4
e. IT'S THE LAW.....1		2	3	4
f. I WANT TO AVOID SERIOUS INJURY...1		2	3	4

21g. Are there any other reasons why you wear your seat belt?

- Yes.....1
- No.....2      **SKIP TO Q22**
- (VOL) Don't know.....3      **SKIP TO Q22**
- (VOL) Refused.....4      **SKIP TO Q22**

**IF YES, What other reasons (why you wear your seat belt)?**

**IF MORE THAN ONE YES IN Q.21a-g, ASK Q.22, ELSE SKIP TO Q.23**

Q.22 Of the following reasons you just gave me for wearing your seat belt, which is the most important?      **(READ LIST. SINGLE RECORD)**

- IT'S A HABIT.....1
- I DON'T WANT TO GET A TICKET.....2
- I'M UNCOMFORTABLE WITHOUT IT.....3
- OTHERS WANT ME TO WEAR IT.....4
- IT'S THE LAW.....5
- I WANT TO AVOID SERIOUS INJURY.....6
- OTHER (SPECIFY).....7
- \_\_\_\_(VOL) Can't say one is most important/all are important.....8
- (VOL) Don't know.....9
- (VOL) Refused.....10

**IF ALL THE TIME IN Qs 13/14/15 & Q.16a-b IS AT LEAST 1 YR SINCE DID NOT WEAR BELT SKIP TO Q.25 ELSE GO TO Q.23**

Q.23 Please tell me if you agree or disagree with the following statements concerning your use of seat belts. Sometimes I do not wear my seat belt because... **RANDOMIZE ORDER**

	AGREE	DISAGREE	(VOL) NOT SURE	(VOL) REFUSED
a. I'M ONLY DRIVING A SHORT DISTANCE....1		2	3	4
b. I'M DRIVING IN LIGHT TRAFFIC.....1		2	3	4
c. I'M IN A RUSH.....1		2	3	4
d. I FORGOT TO PUT IT ON.....1		2	3	4
e. I DON'T WANT MY CLOTHES TO GET WRINKLED.....1		2	3	4
f. THE SEAT BELT IS UNCOMFORTABLE.....1		2	3	4
g. THE PROBABILITY OF BEING IN A CRASH IS TOO LOW.....1		2	3	4
h. OF THE PEOPLE I AM WITH.....1		2	3	4

Q.23i Are there any other reasons why you sometimes do not wear your seat belt?

- Yes.....1
- No.....2
- (VOL) Not Sure.....3
- (VOL) Don't know.....4

**IF YES, What are they (other reasons for not wearing seatbelt)?**

**IF ANY YES'S IN Q.23a-i, ASK Q.24, ELSE GO TO Q.25**

Q.24 Of the following reasons you just gave me for not wearing your seat belt, which is the most important? **(READ LIST. SINGLE RECORD)**

- I'M ONLY DRIVING A SHORT DISTANCE.....1
- I'M DRIVING IN LIGHT TRAFFIC.....2
- I'M IN A RUSH.....3
- I FORGET TO PUT IT ON.....4
- I DON'T WANT MY CLOTHES TO GET WRINKLED.....5
- THE SEAT BELT IS UNCOMFORTABLE.....6
- THE PROBABILITY OF BEING IN A CRASH IS TOO LOW.....7
- THE PEOPLE I AM WITH.....8
- (VOL) Can't say one is most important/all important.....9
- (VOL) Don't know.....10
- (VOL) Refused.....11
- (VOL) OTHER.....12

Q.25 Is there anything that you particularly dislike or find annoying about wearing your seat belt?

- Yes.....1
- No.....2 **SKIP TO Q.27**
- (VOL) Don't know.....3 **SKIP TO Q.27**
- (VOL) Refused.....4 **SKIP TO Q.27**

Q.26 What is it that you dislike or find annoying? Anything else?

- Gave response .....1
- Don't know/not sure/no answer.....2

Q.27 Would you like or dislike a device (e.g. a buzzer) that would remind you that your seat belt was not on whenever your motor vehicle comes to a stop?

- Like.....1
- Dislike.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.28 When you are driving and adult passengers in the front seat do not put on their seat belt, would you say you usually, sometimes or never ask them to put their seat belt on?

- Usually.....1
- Sometimes.....2
- Never.....3
- Belts are automatic/never happens.....4
- Never drive with adult passengers.....5
- (VOL) Don't know.....6
- (VOL) Refused.....7

Q.29 When you are driving and children ages 5 through 12 do not put on their seat belt, would you say you usually, sometimes or never ask them to put their seat belt on?

- Usually.....1
- Sometimes.....2
- Never.....3
- Belts are automatic/never happens.....4
- Never drive school-age children.....5
- (VOL) Don't know.....6
- (VOL) Refused.....7

Q.30 How often do you ride as a passenger in any kind of car, van or truck? Would you say...(READ LIST)

- ALMOST EVERY DAY.....1
  - A FEW DAYS A WEEK.....2
  - A FEW DAYS A MONTH.....3
  - A FEW DAYS A YEAR OR.....4
  - NEVER.....5
  - (VOL) Don't know.....6
  - (VOL) Refused.....7
- SKIP TO Q.40  
SKIP TO Q.40  
SKIP TO Q.40

Q.31 When you are a passenger, do you usually ride in the front seat or the back seat?

- Front seat.....1
- Back seat.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.32a When riding as a passenger in the front seat how often do you wear your seat belt? (READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Never ride in front seat.....6
- (VOL) Don't know.....7
- (VOL) Refused.....8

Q.32b When riding as a passenger in the back seat how often do you wear your seat belt? (READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Never ride in back seat.....6
- (VOL) Don't know.....7
- (VOL) Refused.....8

IF Q.1 NE NEVER AND Q.7 NE MOTORCYCLE, SKIP TO Q40.  
IF Q.1=NEVER AND Q.32a NE 1-4 AND Q.32b NE 1-4, SKIP TO Q.40.  
IF Q.7=MOTORCYCLE AND Q.32a NE 1-4 AND Q.32b NE 1-4, SKIP TO Q.40,  
ELSE ASK Q33.

Q.33 I'm going to read a list of reasons why you might wear your seat belt. As I'm reading, tell me yes or no whether each reason applies to you. When I wear my seat belt, I do so because... RANDOMIZE ORDER

	YES	NO	(VOL) NOT SURE	(VOL) REFUSED
a. IT'S A HABIT.....1		2	3	4
b. I DON'T WANT TO GET A TICKET.....1		2	3	4
c. I'M UNCOMFORTABLE WITHOUT IT.....1		2	3	4
d. OTHERS WANT ME TO WEAR IT.....1		2	3	4
e. IT'S THE LAW.....1		2	3	4
f. I WANT TO AVOID SERIOUS INJURY.....1		2	3	4

Q.33g Are there any other reasons why you wear your seat belt?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

IF YES, What other reasons (why you wear your seat belt)?

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IF MORE THAN ONE YES TO Q.33 ASK Q.34, ELSE GO TO Q.35

Q.34 Of the following reasons you just gave me for wearing your seat belt, which is the most important? (READ LIST. SINGLE RECORD)

- IT'S A HABIT.....1
- I DON'T WANT TO GET A TICKET.....2
- I'M UNCOMFORTABLE WITHOUT IT.....3
- OTHERS WANT ME TO WEAR IT.....4
- IT'S THE LAW.....5
- I WANT TO AVOID SERIOUS INJURY.....6
- OTHER (SPECIFY).....7
- (VOL) Can't say one is most important/all are important.....8
- (VOL) Don't know.....9
- (VOL) Refused.....10

IF Q.32a=2-5 OR Q32b=2-5 THEN ASK Q.35, ELSE SKIP TO Q.37

Q.35 Please tell me if you agree or disagree with the following statements concerning your use of seat belts. Sometimes I do not wear my seat belt because... **RANDOMIZE ORDER**

	AGREE	DISAGREE	(VOL) NOT SURE	(VOL) REFUSED
a. I'M ONLY RIDING A SHORT DISTANCE.....1		2	3	4
b. I'M RIDING IN LIGHT TRAFFIC.....1		2	3	4
c. I'M IN A RUSH.....1		2	3	4
d. I FORGET TO PUT IT ON.....1		2	3	4
e. I DON'T WANT MY CLOTHES TO GET WRINKLED.....1		2	3	4
f. THE SEAT BELT IS UNCOMFORTABLE.....1		2	3	4
g. THE PROBABILITY OF BEING IN A CRASH IS TOO LOW.....1		2	3	4
h. OF THE PEOPLE I AM WITH.....1		2	3	4

Q.35i Are there any other reasons why you sometimes do not wear your seat belt?

- Yes.....1
- No.....2
- (VOL) Not sure.....3
- (VOL) Refused.....4

IF YES, What are they (other reasons for not wearing seatbelt)?

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**IF ANY YES'S IN Q.35 ASK Q.36, ELSE GO TO Q.37**

Q.36 Of the following reasons you just gave me for not wearing your seat belt, which is the most important? **(READ LIST. SINGLE RECORD)**

- I'M ONLY RIDING A SHORT DISTANCE.....1  
 I'M RIDING IN LIGHT TRAFFIC.....2  
 I'M IN A RUSH.....3  
 I FORGET TO PUT IT ON.....4  
 I DON'T WANT MY CLOTHES TO GET.....5  
 WRINKLED.....6  
 THE SEAT BELT IS UNCOMFORTABLE.....7  
 THE PROBABILITY OF BEING IN A  
 CRASH IS TOO LOW.....8  
 THE PEOPLE I AM WITH.....9  
 (VOL) Can't say one is most important/all  
 important.....10  
 (VOL) Don't know.....11  
 (VOL) Refused.....12  
 (VOL) Other reason (SPECIFY).....13

Q.37 Is there anything that you particularly dislike or find annoying about wearing your seat belt?

- Yes.....1  
 No.....2 **SKIP TO Q.39**  
 (VOL) Don't know.....3 **SKIP TO Q.39**  
 (VOL) Refused.....4 **SKIP TO Q.39**

Q.38 What is it that you dislike or find annoying? Anything else?

- Gave response.....1  
 Don't know/not sure/no answer.....2

Q.39 Would you like or dislike a device (e.g. buzzer) that would remind you that your seat belt was not on whenever the motor vehicle comes to a stop?

- Like.....1  
 Dislike.....2  
 (VOL) Don't know.....3  
 (VOL) Refused.....4

Q.40 Now I'd like to ask your opinion about seat belt laws. How do you feel about laws that require drivers and front seat passengers to wear seat belts? Do you favor these laws a lot, do you favor them some or do you not favor these laws at all?

- Favor a lot.....1  
 Favor some.....2  
 Not favor at all.....3 **SKIP TO Q.45**  
 (VOL) Don't know.....4 **SKIP TO Q.45**  
 (VOL) Refused.....5 **SKIP TO Q.45**

Q.41 Do you think that seat belt laws should also apply to back seat adult passengers?

- Yes.....1  
 No.....2  
 Depends on age of the passenger.....3  
 (VOL) Don't know.....4  
 (VOL) Refused.....5

Q.42 Do you support fines for drivers who do not wear seat belts?

- Yes.....1
- No.....2 **SKIP TO Q.44**
- (VOL) Don't know.....3 **SKIP TO Q.44**
- (VOL) Refused.....4 **SKIP TO Q.44**

Q.43a What do you think the minimum fine should be for the first seat belt violation?

- No fine/warning.....0
- Less than \$25.....1
- \$25-49.....2
- \$50-74.....3
- \$75-99.....4
- \$100 or more.....5
- Not sure (VOL)..6

Q.43b What do you think the minimum fine should be for repeat seat belt violations?

- No fine/warning.....0
- Less than \$25.....1
- \$25-49.....2
- \$50-74.....3
- \$75-99.....4
- \$100 or more.....5
- Not sure (VOL)..6

Q.44 Do you favor or oppose receiving points against a license as a penalty for seat belt violations?

- Favor.....1
- Oppose.....2
- Depends on past violations.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.45 Suppose you get a ticket for not wearing your seat belt. Which of the following statements better describes your likely reaction?

- I deserve the ticket because I broke the law.....1
- I do NOT deserve the ticket because wearing a seat belt should be a personal choice.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.46 The next questions are about seat belt laws in your state. Does (STATE) have a law requiring seat belt use?

- Yes.....1
- No.....2 **SKIP TO Q.48b**
- (VOL) Don't know.....3 **SKIP TO Q.48b**
- (VOL) Refused.....4 **SKIP TO Q.48b**

Q.47 Not including children, who is required to wear seat belts according to your state law? (READ LIST)

- DRIVERS ONLY.....1
- DRIVERS AND ADULT FRONT SEAT PASSENGERS OR.....2
- DRIVERS AND ALL ADULT PASSENGERS?...3
- (VOL) Don't know.....4

Q.48a According to your state law, can police stop a vehicle if they observe a seat belt violation or do they have to observe some other offense first in order to stop the vehicle?

- Can stop just for seat belt violation.....1
- Must observe another offense first.....2
- (VOL) Don't know.....3

Q.48b In your opinion, should police be allowed to stop a vehicle if they observe a seat belt violation when no other traffic laws are being broken?

- Should be allowed to stop.....1      **SKIP TO Q.55a**
- Should not.....2

Q.48c Most other traffic laws allow police to stop the vehicle whenever they see a violation. Why do you think seat belt violations should be treated differently from other traffic violations?      **DO NOT READ LIST. MULTIPLE RECORD**

- Don't pose a risk to others.....1
- Not as serious a violation.....2
- Police may abuse it.....3
- Other (SPECIFY) .....7

Q.55a Have you ever received a ticket for not wearing seat belts?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.55b Have you ever received a warning for not wearing seat belts?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

**IF YES IN Q55a OR Q55b ASK Q55c, OTHER SKIP TO Q56**

Q.55c. Did you start wearing your seat belt more often after receiving the (ticket/warning)?

- Yes.....1
- No.....2
- Not sure (VOL)...3

**IF Q.1=NEVER SKIP TO Q.57 ELSE ASK Q.56**

Q.56 Assume that you do not wear your seat belt AT ALL while driving over the next six months. How likely do you think you will be to receive a ticket for not wearing a seat belt? (READ LIST)

- VERY LIKELY.....1
- SOMEWHAT LIKELY.....2
- SOMEWHAT UNLIKELY.....3
- VERY UNLIKELY.....4
- (VOL) Don't know.....5
- (VOL) Refused.....6

Q.57 How often do you think police should ticket for seat belt violations? On a scale of 1 to 10, where 1 means police should hardly ever give tickets when it comes to enforcing seat belt laws and 10 means police should give tickets at every opportunity when it comes to enforcing seat belt laws, how strict should police enforcement be?

- (VOL) Don't know.....11
- (VOL) Refused.....12

Q.58 In general, do you think most highway speed limits are too low, too high or about right?

- Too low.....1
- Too high.....2
- About right.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.59 How about residential speed limits or those not on a highway? Do you think they are too low, too high or about right?

- Too low.....1
- Too high.....2
- About right.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.60 Would you say the driving of most other drivers is...(READ LIST)

- EXCELLENT.....1
- VERY GOOD.....2
- GOOD.....3
- FAIR OR.....4
- POOR.....5
- (VOL) Don't know.....6
- (VOL) Refused.....7

**IF Q.1=NEVER SKIP TO Q.62 ELSE ASK Q.61**

Q.61 How often do you feel pressure from other drivers to go faster than the speed limit? (READ LIST)

- VERY OFTEN.....1
- OFTEN.....2
- NOT VERY OFTEN OR.....3
- HARDLY EVER.....4
- (VOL) Don't know.....5
- (VOL) Refused.....6

Q.62 If the posted speed limit is 55 miles per hour, do you personally think it is OK for drivers to go 60 or should they not go over the 55 miles per hour speed limit?

- OK to go 60 mph.....1
- NOT OK to go over 55 mph.....2
- (VOL) Don't know.....3

Q.63 How about for local driving in residential areas? If the posted speed limit is 35 miles per hour, do you personally think it is OK for drivers to go 40 or should they not go over the 35 miles per hour speed limit?

- OK to go 40 mph.....1
- NOT OK to go over 35 mph.....2
- (VOL) Don't know.....3

**IF Q.1=NEVER SKIP TO Q.67 ELSE ASK Q.64**

Q.64 Which statement best describes your highway driving.  
 1 > I TEND TO PASS OTHER CARS MORE OFTEN THAN OTHER CARS PASS ME, OR  
 2 > OTHER CARS TEND TO PASS ME MORE OFTEN

- I tend to pass other cars more often than other cars pass me.....1
- Other cars tend to pass me more often.....2
- (VOL) Neither, I drive the same as most others.....3
- (VOL) I don't drive on highways.....4 **SKIP TO Q.67**
- (VOL) Don't know.....5
- (VOL) Refused.....6
- (VOL) Both, that is, I tend to pass and others tend to pass me.....7

Q.65 In general, how fast do you drive on a highway with a posted speed limit of 55 miles per hour?

\_\_\_\_\_ (Range=45-75) DON'T KNOW=77 REFUSED=78

Q.66a When was the most recent time that you, personally, drove two hundred miles or more on a trip (one way)?

- Within past week.....1
- Within past month.....2
- Within past year.....3
- More than a year ago.....4
- Never.....5 **SKIP TO Q.67**
- (VOL) Not sure.....6

Q.66b Have you ever begun driving for a long distance trip of two-hundred miles or more between midnight and 5 AM in the morning?

- Yes.....1
- No.....2
- (VOL) Not sure...3

Q.67 I would like to switch subjects for a minute. Have you seen or heard any advertisements that use crash dummies?

- Yes.....1
- No.....2 **SKIP TO Q.69**
- (VOL) Don't know.....3 **SKIP TO Q.69**
- (VOL) Refused.....4 **SKIP TO Q.69**

Q.68 Could you tell me what advice or message the crash dummies advertised? (DO NOT READ LIST -- MULTIPLE RECORD)

- Commercial for a brand of car.....1
- Commercial for something else (e.g., toys)....2
- Don't be a dummy.....3
- Wear seat belts/buckle up.....4
- Don't drink and drive.....5
- Other (SPECIFY).....10
- (VOL) Don't remember.....11
- (VOL) Refused.....12

Now I'd like to ask you a few questions about airbags.  
**IF Q.1=NEVER OR Q7=MOTORCYCLE, SKIP TO Q.72 ELSE ASK Q.69**

Q.69 Does the (car/truck/van) you normally drive have an airbag?

- Yes.....1
- No.....2 **SKIP TO Q.71**
- (VOL) Don't know.....3 **SKIP TO Q.71**
- (VOL) Refused.....4 **SKIP TO Q.71**

Q.70 Is the airbag for the driver only or is there also a passenger side airbag?

- Driver only.....1
- Driver and passenger.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.71 If you are driving in a vehicle that has an airbag and you get into an accident involving major vehicle damage is it likely or unlikely that you would be injured?

- Likely.....1
- Unlikely.....2
- Depends on type of accident.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.72 Please tell me whether you agree or disagree with the following statement. If my car has a (driver/passenger) side airbag, I don't need to wear my seat belt when (driving/riding).

- Agree.....1
- Disagree.....2
- (VOL) Don't know.....3

Q.73 Based on what you know or have heard, what is the minimum speed a vehicle would have to be hit in, order for an airbag to open up?

\_\_\_\_\_ MPH (Range=1-75) DON'T KNOW=77 REFUSED=78

Q.74 If a vehicle is hit FROM THE FRONT at a moderate speed, would you expect the airbag to open?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.75 If a vehicle is hit FROM THE SIDE at a moderate speed, would you expect the airbag to open?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.76a If a vehicle is hit FROM BEHIND at a moderate speed, would you expect the airbag to open?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.76b Would you prefer that your next vehicle have driver side airbags only, driver and passenger side airbags or no airbags?

- Driver side only.....1
- Driver and passenger side.....2
- No airbags.....3
- (VOL) Not sure.....4
- (VOL) Refused.....5

Q.76c Do you have any concerns about the safety of airbags?

- Yes.....1
- No.....2 **SKIP TO Q.76e**
- (VOL) Don't know..3 **SKIP TO Q.76e**
- (VOL) Refused.....4 **SKIP TO Q.76e**

Q.76d What are those concerns (about the safety of airbags)?

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Q.76e On balance, do you feel safer in motor vehicles with airbags, about the same, or less safe in vehicles with airbags than those without airbags?

- Safer in vehicles with airbags.....1
- About the same.....2
- Less safe in vehicles with airbags.....3
- (VOL) Not sure.....4

Q.76f Compared to the other safety features of motor vehicle, do you consider airbags to be one of the most important, fairly important, not too important or not important at all?

- One of the most important.....1
- Fairly important.....2
- Not too important.....3
- Not important at all.....4

**IF Q1=NEVER, SKIP TO Q77**

Q.77a Does the (car/truck/van) you usually drive have an antilock brake system?

- Yes.....1
- No.....2 **SKIP TO Q.78a**
- (VOL) Don't know.....3 **SKIP TO Q.78a**
- (VOL) Refused.....4 **SKIP TO Q.78a**

Q.77b To the best of your knowledge, when the antilock brake system is activated, is it normal for the brake pedal to vibrate, or does vibration indicate that there is something wrong with the system?

- Vibration is normal.....1
- Not normal, something is wrong.....2
- Not sure.....3

Q.77c When antilock breaks are activated, should drivers.....

- Keep their foot pressed firmly down on the brake pedal.....1
- Keep their foot on the brake pedal, but reduce pressure.....2
- Pump the brake with their foot.....3

Now I'd like to ask you some questions about motorcycle use.

**IF Q.1=NEVER SKIP TO Q.79 ELSE ASK Q.78a**

Q.78a Have you driven a motorcycle in the past year?

- Yes.....1
- No.....2      **SKIP TO Q.79**
- (VOL) Don't know.....3      **SKIP TO Q.79**
- (VOL) Refused.....4      **SKIP TO Q.79**

Q.78b How often do you wear a helmet when you drive a motorcycle?  
Would you say...(READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Don't know.....6

Q.79 Do you favor or oppose mandatory helmet use laws for motorcyclists?

- Favor.....1
- Oppose.....2
- (VOL) Don't know.....3

**IF Q.78a=YES ASK Q.80 ELSE Q.81**

Q.80 During the past 12 months, have you driven a motorcycle after drinking alcoholic beverages?  
(IF ASKED HOW LONG AFTER DRINKING, SAY:) When you probably still had alcohol in your system.

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.81 During the past 12 months, have you RIDDEN as a passenger on a motorcycle?

- Yes.....1
- No.....2      **SKIP TO Q.83**
- (VOL) Don't know.....3      **SKIP TO Q.83**

Q.82 Did you wear a helmet the last time you rode as a passenger?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.83 Now I'm going to ask you a few questions about alcohol use. During the past 30 days, that is, since this (MONTH), have you had at least one drink of any alcoholic beverage, including liquor, beer, wine or wine coolers?

- Yes.....1      **SKIP TO Q.85**
- No.....2
- (VOL) Not sure.....3

Q.84 Did you drink any alcoholic beverages at all during the past 12 months?

- Yes.....1      **SKIP TO Q.86**
- No.....2      **SKIP TO Q.90**
- (VOL) Not sure.....3      **SKIP TO Q.90**

Q.85 How many days out of the past 30 days did you drink alcoholic beverages?  
 \_\_\_\_\_ (Range=0-30) NOT SURE=31 REFUSED=32

Q.86 On the average, how many drinks did you typically have on the days you drank?  
 \_\_\_\_\_ (Range=0-12) MORE THAN 12=13 NOT SURE=14 REFUSED=15

**IF Q.1=NEVER OR Q.83=NO SKIP TO Q.90 ELSE ASK Q.87**

Q.87 During the past 30 days, have you driven a vehicle after you had been drinking alcohol?

Yes.....1  
 No.....2 **SKIP TO Q.90**  
 (VOL) Not sure.....3 **SKIP TO Q.90**

Q.88 How many days out of the past 30 days did you drive after drinking alcoholic beverages?  
 \_\_\_\_\_ (Range=0-30) NOT SURE=31 REFUSED=32

Q.89 In the past 30 days, have you driven a vehicle when you thought you might have consumed too much alcohol to drive safely?

Yes.....1  
 No.....2  
 (VOL) Not sure.....3

Q.90 Have YOU ever been injured in a motor vehicle accident? Only count injuries that required medical attention.

Yes.....1  
 No.....2 **SKIP TO Q.99c**  
 (VOL) Don't know.....3 **SKIP TO Q.99c**  
 (VOL) Refused.....4 **SKIP TO Q.99c**

Q.91 How many times did this happen?  
 \_\_\_\_\_ DON'T KNOW=98 REFUSED=99

**IF MORE THAN ONE IN Q91, ASK Q92, ELSE SKIP TO Q93a**

Q92. How old were you the first time that you were injured in a motor vehicle accident?

\_\_\_\_\_ NUMBER OF YEARS AGO  
 NOT SURE=98 REFUSED=99

Q.93a How long ago did (that/the most recent) accident occur?

\_\_\_\_\_ NUMBER OF YEARS AGO  
~~WITHIN THE PAST YEAR=0~~ NOT SURE=98 REFUSED=99

Q.93b In what state did (that/your most recent) crash occur?

\_\_\_\_\_

Q.93c Were you a driver or a passenger in that accident?

Driver.....1  
 Passenger.....2  
 Pedestrian (VOL)...3  
 Other (SPECIFY).....4  
 \_\_\_\_\_

**IF Q.93c=PEDESTRIAN, SKIP TO Q95**

Q.94 Were you wearing your seat belt at the time of the accident?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.95 At which of the following were you treated for your injuries?  
Were you treated at ...(READ LIST AND MULTIPLE RECORD)?

- Hospital emergency room.....1
- Doctor's office.....2
- Clinic.....3
- At accident scene.....4
- Other (SPECIFY).....5

Did not need treatment.....6 **SKIP TO Q.98a**

Q.96 Were you transported from the accident scene by ambulance or helicopter?

- Yes, ambulance.....1
- Yes, helicopter.....2
- No, neither.....3
- (VOL) Don't know.....4

Q.97 Were you hospitalized for at least one full night?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.98a Did your injuries from that accident prevent you from performing any of your normal activities (work, school, household) for at least a week?

- Yes.....1
- No.....2 **SKIP TO Q.99a**
- (VOL) Don't know.....3 **SKIP TO Q.99a**
- (VOL) Refused.....4 **SKIP TO Q.99a**

Q.98b Were there any activities that you were unable to resume because of your injuries even a year after the accident?

- Yes.....1
- No.....2
- Happened less than 1 year ago.....3
- (VOL) Not sure.....4
- (VOL) Refused.....5

**IF YES IN Q.98a OR Q.91=1, SKIP TO Q.99c**

Q.99a Have you ever received injuries from a vehicle accident that prevented you from performing any of your normal activities (work, school, household) for at least a week?

- Yes.....1
- No.....2 **SKIP TO Q.99c**
- (VOL) Don't know.....3 **SKIP TO Q.99c**
- (VOL) Refused.....4 **SKIP TO Q.99c**

Q.99b Were there any activities that you were unable to resume because of your injuries even a year after the accident?

- Yes.....1
- No.....2
- Happened less than 1 year ago.....3
- (VOL) Not sure.....4
- (VOL) Refused.....5

**IF YES IN Q.91 SKIP TO Q.99e**

Q.99c Were you ever a driver or a passenger in a motor vehicle crash that involved death or injuries requiring medical attention?

- Yes.....1
- No.....2 **SKIP TO Q.99e**
- (VOL) Don't know.....3 **SKIP TO Q.99e**
- (VOL) Refused.....4 **SKIP TO Q.99e**

Q.99d1 How many times did this happen?

\_\_\_\_\_ DON'T KNOW=98 REFUSED=99

**IF MORE THAN ONE IN Q.99d1, ASK Q.99d2, ELSE SKIP TO Q.99d3**

Q99d2 How old were you the first time that you were a driver or passenger in a motor vehicle accident in which someone was injured or killed?

\_\_\_\_\_ ~~NOT SURE=98 REFUSED=99~~

Q99d3 How long ago did that (your most recent) accident in which someone was injured or killed occur?

\_\_\_\_\_ ~~NUMBER OF YEARS AGO WITHIN THE PAST YEAR=0~~ NOT SURE=98 REFUSED=99

People have different beliefs about their own chances of survival in a crash.

Q.99e Do you agree or disagree that if it is your time to die, you'll die, so it doesn't matter whether you wear your seat belt?

- Agree.....1
- Disagree.....2
- (VOL) Not sure.....3
- (VOL) Refused.....4

Q.99f Do you agree or disagree that people have a choice to do what they can to avoid death and serious injury, so wearing a seat belt does matter?

- Agree.....1
- Disagree.....2
- (VOL) Not sure.....3
- (VOL) Refused.....4

Q.100 Now I need to ask you some basic information about you and your household. What is your age?

\_\_\_\_\_ AGE REFUSED=99

Q.101a How many other persons, age 16 or older, live in the household at least 50 percent of the time or who consider it their primary residence?

\_\_\_\_\_ IF NO OTHER ADULTS 16+, ENTER "0" REFUSED=99

Q.101b How many children under age 16 are living in your household at least 50 percent of the time or who consider it their primary residence?

\_\_\_\_\_ NONE=0 REFUSED=99

Q.102 Are you of Spanish or Hispanic origin?

Yes.....1  
 No.....2  
 (VOL) Not sure.....3  
 (VOL) Refused.....4

Q.103 Which of these categories best describes your racial background?

White.....1  
 Black or African American.....2  
 Asian or Pacific Islander.....3  
 Eskimo, Aleutian or American Indian.....4  
 Mixed.....5  
 Other(SPECIFY).....6  
 (VOL) Refused.....9

Q.104 Are you married, divorced, widowed, separated or have you never been married?

Married.....1  
 Divorced.....2  
 Widowed.....3  
 Separated.....4  
 Never been married.....5  
 A member of an unmarried couple.....6  
 (VOL) Refused.....7

Q.105a What is the highest grade or year of school you completed?

8th grade or less.....9  
 9th grade.....10  
 10th grade.....11  
 11th grade.....12  
 12th grade/GED.....13  
 Some college.....14  
 College graduate or higher.....15  
 (VOL) Refused.....16

Q.105b Which of the following categories best describes your total household income before taxes in 1995? Was your total household income **[READ LIST]**

Less than \$5,000.....1  
 \$5,000 to \$14,999.....2  
 \$15,000 to \$29,999.....3  
 \$30,000 to \$49,999.....4  
 \$50,000 to \$74,999.....5  
 \$75,000 to \$99,999.....6  
 \$100,000 or more.....7  
 Not sure (VOL).....8  
 Refused (VOL).....9

Q.106 Are you currently employed for wages, self-employed, out of work, a homemaker, a student, retired or unable to work? **MULTIPLE RECORD**

Employed for wages.....1  
Self-employed.....2  
Out of work.....3  
Homemaker.....4  
Student.....5  
Retired.....6  
Unable to work.....7  
(VOL) Refused.....8

In order to better understand driver and rider characteristics, we'd like to ask you about your height and weight.

Q.107a About how tall are you without shoes?

\_\_\_\_\_ ft. \_\_\_\_\_ in.

Q.107b What is your weight?

\_\_\_\_\_ DON'T KNOW=998 REFUSED=999

Q.108 Do you have more than one telephone number in your household?

Yes.....1  
No.....2 **SKIP TO Q.110**  
(VOL) Refused...3 **SKIP TO Q.110**

Q.109 How many different telephone numbers do you have?

\_\_\_\_\_ 10 OR MORE=10 DON'T KNOW=11 REFUSED=12

Q.110 **FROM OBSERVATION, ENTER SEX OF RESPONDENT**

Male.....1  
Female.....2

That completes the survey. Thank you very much for your time and cooperation.



# **APPENDIX B:**

## **QUESTIONNAIRE**

### **VERSION 2**



SURVEY ON OCCUPANT PROTECTION: 1996  
VERSION 2

SAMPLE READ-IN

Cross-section.....1  
Oversample.....2

State: \_\_\_\_\_ County: \_\_\_\_\_ Metro Status: \_\_\_\_\_

Date: \_\_\_\_\_ CATI ID: \_\_\_\_\_

Interviewer: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time End: \_\_\_\_\_ TOTAL TIME: \_\_\_\_\_

INTRODUCTION

Hello, I'm \_\_\_\_\_ calling for the U.S. Department of Transportation. We are conducting a national study of Americans' driving habits and their attitudes about current driving laws.

DUMMY QUESTION FOR BIRTHDAY QUESTIONS

Has had the most recent.....1  
Will have the next.....2

IF SAMPLE TYPE EQ 1, ASK A, ELSE ASK B.

A. In order to select just one person to interview, could I speak to the person in your household, 16 or older, who (has had the most recent/will have the next) birthday?

Respondent is the person.....1      SKIP TO Q.1  
Other respondent comes to phone.....2      SKIP TO D  
Respondent is not available.....3      ARRANGE CALLBACK

IF SAMPLE TYPE EQ 2 ASK B

B. Is there anyone aged 16 to 39 years old living in your household?

Yes.....1  
No.....2      THANK AND SCREEN OUT

C. Could I speak to the person aged 16 to 39 years old living in your household who (has had the most recent/will have the next) birthday?

Respondent is the person.....1  
Other respondent comes to phone.....2  
Respondent not available.....3      ARRANGE CALLBACK

D. Hello, I'm \_\_\_\_\_ calling for the U.S. Department of Transportation. We are conducting a national study of Americans' driving habits and their attitudes about current driving laws. The interview is completely confidential. It takes fifteen to twenty minutes. Could we begin now?

CONTINUE INTERVIEW.....1  
Arrange Callback.....2  
Refused.....3

Q.1 How often do you drive a motor vehicle? Almost every day, a few days a week, a few days a month, a few days a year, or do you never drive?

- Almost every day.....1
- Few days a week.....2
- Few days a month.....3
- Few days a year.....4
- Never.....5 SKIP TO Q.11
- Other.....6
- (VOL) Don't know.....7
- (VOL) Refused.....8

Q.2 Is the vehicle you drive most often a car, van, motorcycle, pickup truck, or other type of truck?  
 (NOTE: IF RESPONDENT DRIVES MORE THAN ONE VEHICLE OFTEN, ASK:) "What kind of vehicle did you LAST drive?"

- Car.....1
- Van or minivan.....2
- Motorcycle.....3 SKIP TO Q.11
- Pickup truck.....4
- Jeep/Explorer/Trooper/etc.....5
- Other truck (SPECIFY).....11
- (VOL) Don't know.....12
- (VOL) Refused.....13

**INTERVIEWER INSTRUCTION: SEATBELT QUESTIONS REFER TO DRIVER SIDE SEATBELTS.**

Q.3 For the next series of questions, please answer only for the (car/truck/van) you said you usually drive. Do the seat belts in the front seat of the (car/truck/van) go across your shoulder only, across your lap only, or across both your shoulder and lap?

- Across shoulder.....1 SKIP TO Q.6
- Across lap.....2 SKIP TO Q.9
- Across both.....3
- Vehicle has no belts.....4 SKIP TO Q.11
- (VOL) Don't know.....5 SKIP TO Q.10a
- (VOL) Refused.....6 SKIP TO Q.10a

Q.4 Are the shoulder and lap belt one piece or are they two separate belts?

- One piece.....1 SKIP TO Q.6
- Two separate belts.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.5 Are both the shoulder and lap belt automatic, is only the shoulder belt automatic or is neither the shoulder or lap belt automatic?

- Both are automatic.....1 SKIP TO Q.7
- Only shoulder is automatic.....2 SKIP TO Q.7
- Neither are automatic.....3 SKIP TO Q.8
- (VOL) Don't know.....4 SKIP TO Q.8
- (VOL) Refused.....5 SKIP TO Q.8

Q.6 Is the shoulder belt automatic or do you have to fasten it?

- Automatic.....1
- Manual.....2 SKIP TO Q.8
- (VOL) Don't know.....3 SKIP TO Q.8
- (VOL) Refused.....4 SKIP TO Q.8

Q.7 When you drive, do you always wear your automatic belt or is it ever disconnected, disabled, or placed behind you?

- Always wear it.....1
- Disconnected.....2
- Disabled.....3
- Placed behind me.....4
- (VOL) Don't know.....5

IF Q3=1 OR 3 ASK Q8, ELSE SKIP TO Q9

Q.8 When driving this (car/truck/van) how often do you wear your shoulder belt... (READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Don't know.....6
- (VOL) Refused.....7

IF Q.3=2 OR 3 ASK Q.9, ELSE SKIP TO Q.10a

Q.9 When driving this (car/truck/van) how often do you wear your lap belt...(READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Don't know.....6
- (VOL) Refused.....7

IF Q.8=1-4 OR Q.9=1-4 ASK Q.10a, ELSE SKIP TO Q.11

Q.10a When was the last time you did NOT wear your seat belt when driving?

- Today.....1
- Within past week.....2
- Within past month.....3
- Within past year.....4
- A year or more ago/  
I always wear it...5
- (VOL) Don't know.....6
- (VOL) Refused.....7

ASK Q.10b IF DON'T KNOW/REFUSED IN Q.10a

Q.10b Has there been any occasion in the past year when you did not wear your seat belt when driving?

- Yes.....1
- No.....2
- Don't know....3

Q.11 To ask the next series of questions, I need to know the ages and relationships of people living in your household. I'd like you to include anyone who lives with you at least 50 percent of the time or who considers it their primary residence. Let's start with you. What is your age?

\_\_\_\_\_ AGE REFUSED=99

Q.12a Including yourself, how many adults AGE 16 AND OLDER are living in your household at least 50 percent of the time or consider it their primary residence?

\_\_\_\_\_ NONE=0 REFUSED=99

Q.12b How many children UNDER AGE 16 are living in your household at least 50 percent of the time or consider it their primary residence?

\_\_\_\_\_ NONE=0 REFUSED=99

IF ONE OR MORE IN Q.12b, ASK Q.13a, ELSE GO TO Q.17

Q.13a What is the age of the YOUNGEST CHILD (under age 16) living in the household? (ENTER TO THE NEAREST YEAR)

- Newborn/less Than 1 year old.....1
- 1 year old.....2
- 2 year old.....3
- 3 year old.....4
- 4 year old.....5
- 5 year old.....6
- 6 year old.....7
- 7 year old.....8
- 8 year old.....9
- 9 year old.....10
- 10 year old.....11
- 11 year old.....12
- 12 year old.....13
- 13 year old.....14
- 14 year old.....15
- 15 year old.....16
- (VOL) Refused.....17

Q.13b Is the (youngest child) a boy or a girl?

- Boy.....1
- Girl.....2

Q.13c How is the youngest child related to you?

- Child/Stepchild.....1
- Grandchild.....2
- Sibling (brother/sister).....3
- Other relative.....4
- Not related.....5
- (VOL) Refused.....6

**IF MORE THAN ONE IN Q.12b, ASK Q.14a, ELSE GO TO Q.17**  
 Q.14a What is the age of the NEXT OLDEST CHILD (under age 16) living in the household? (ENTER TO THE NEAREST YEAR)

- Less than 1 year.....1
- 1 year old.....2
- 2 year old.....3
- 3 year old.....4
- 4 year old.....5
- 5 year old.....6
- 6 year old.....7
- 7 year old.....8
- 8 year old.....9
- 9 year old.....10
- 10 year old.....11
- 11 year old.....12
- 12 year old.....13
- 13 year old.....14
- 14 year old.....15
- 15 year old.....16

Q.14b Is the next oldest child a boy or a girl?

- Boy.....1
- Girl.....2
- (VOL) Refused.....3

Q.14c How is the (AGE) related to you?

- Child/Stepchild.....1
- Grandchild.....2
- Sibling (brother/sister).....3
- Other relative.....4
- Not related.....5
- (VOL) Refused.....6

**IF Q.1=NEVER, SKIP TO Q.51**  
**ALL RESPONDENTS WHO DRIVE WITH SONS/DAUGHTERS UNDER AGE 6 GO TO Q.20**  
**IF CHILDREN IN HOUSEHOLD UNDER 6 BUT NONE ARE SONS/DAUGHTERS ASK Q.15**

Q.15 Do you ever drive with (the child/ at least one of the children under 6) these children that you just mentioned in your (car/truck/van)?

- Yes, one child in household....1 SKIP TO Q.20
- Yes, more than one child.....2
- No.....3 SKIP TO Q.17
- (VOL) Don't know.....4 SKIP TO Q.17

Q.16 Which of the children under six do you at least sometimes drive?

(ENTER AGE OF EACH CHILD DRIVE AT LEAST SOMETIMES BELOW )

- Age of child #1 \_\_\_\_\_
- Age of child #2 \_\_\_\_\_
- Age of child #3 \_\_\_\_\_
- Age of child #4 \_\_\_\_\_
- Age of child #5 \_\_\_\_\_
- Age of child #6 \_\_\_\_\_

**ALL WHO DRIVE WITH CHILDREN UNDER SIX GO TO Q20**

**IF NO CHILDREN UNDER AGE 6 ASK Q.17**

Q.17 In the past 12 months, have you driven with any children under age 6?

- Yes.....1
- No.....2      SKIP TO Q.51
- (VOL) Don't know.....3      SKIP TO Q.51
- (VOL) Refused.....4      SKIP TO Q.51

Q.18a How often do you drive with children under six?

- Is it.....
- Almost every day.....1
- Few days a week.....2
- Few days a month.....3
- Few days a year.....4
- Never.....5      SKIP TO Q.51
- Other.....6

Q.18b What is your relationship to the child or children under age 6 that you at least sometimes drive with? **MULTIPLE RECORD**

- Son/daughter.....1
- Brother/sister.....2
- Grandchild.....3
- Other relative.....4
- Teacher/bus driver.....5
- Other non-relative.....6
- (VOL) Don't know.....7
- (VOL) Refused.....8

Q.19 When you are driving and children under age 6 are riding with you, would you say that they are in a child car seat or a seat belt all of the time, most of the time, some of the time, rarely or never?

- All of the time.....1      SKIP TO Q.51
- Most of the time.....2      SKIP TO Q.51
- Some of the time.....3      SKIP TO Q.51
- Rarely.....4      SKIP TO Q.51
- Never.....5      SKIP TO Q.51
- (VOL) Depends on child.....6      SKIP TO Q.51
- (VOL) Don't know.....7      SKIP TO Q.51
- (VOL) Refused.....8      SKIP TO Q.51

**DRIVERS WITH CHILDREN UNDER SIX IN THE HOUSEHOLD CONTINUE  
RANDOM SELECTION OF ONE ELIGIBLE CHILD**

Q.20 The following questions are for (your/the) (AGE), only.

How much does (he/she) weigh?

(NOTE: IGNORE REFERENCES TO OUNCES; ONLY RECORD POUNDS).

\_\_\_\_\_ 1b.      (Range=5-100 lbs)

(IF DON'T KNOW/REFUSED, PROBE: N.20b Is he/she....)

- Less than 20 pounds.....1
- 20 to 29 pounds.....2
- 30 to 39 pounds.....3
- 40 pounds or more.....4
- Don't know.....5
- Refused.....6

Q.21 How tall is he/she? (RECORD BOTH FEET AND INCHES)

\_\_\_\_\_ FEET (Range: 1-4 feet)

\_\_\_\_\_ INCHES

Q.22 When you are driving and (AGE) rides in the vehicle with you, how often does (he/she) ride in a child car seat... would you say... (READ LIST)

- ALL OF THE TIME.....1
  - MOST OF THE TIME.....2
  - SOME OF THE TIME.....3
  - RARELY, OR.....4
  - NEVER.....5
  - (VOL) Never drive with child.....6
  - (VOL) Don't know.....7
  - (VOL) Refused.....8
- SKIP TO Q.46  
SKIP TO Q.51  
SKIP TO Q.51  
SKIP TO Q.51

Q.23a When was the last time (he/she) did not ride in a child car seat when you were driving?

- Today.....1
- Within past week.....2
- Within past month.....3
- Within past year.....4
- A year or more ago/  
always wears it.....5
- (VOL) Don't know.....6
- (VOL) Refused.....7

**ASK IF DON'T KNOW IN Q.23a**

Q.23b Has there been any occasion in the past year when (he/she) did not ride in a car seat when you were driving?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.24 When (he/she) is fastened in the child car seat, are there straps over both shoulders, a strap across only one shoulder or are there no straps over either shoulder?

- Two straps.....1
- One strap.....2
- No straps.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.25 When you are driving and (he/she) rides in the child car seat, is it usually in the front seat or the back seat?

- Front seat.....1
  - Back seat.....2
  - (VOL) Don't know.....3
  - (VOL) Refused.....4
- SKIP TO Q.27

Q.26 Is the child car seat usually behind the driver, behind the passenger or in the middle of the back seat?

- Behind the driver.....1
- Behind the passenger.....2
- In the middle.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

IF Q.24 IS ONE OR NO STRAPS, GO TO Q.28b

Q.27 When you are driving and (he/she) is riding in the child car seat, is it usually front facing or rear facing?

- Front.....1
- Rear.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

LOGIC CHECK: IF KID AGE GE 1 AND Q.27=1,  
DOUBLE CHECK AGE. IF AGE CORRECT, DOUBLE CHECK Q.27.

Q.28a Can the seat be used in a front facing position only, a rear facing position only, or can it be used in either position?

- Front facing only.....1
- Either front or rear facing.....2
- Only rear facing.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.28b During the past thirty days, has your (AGE) ridden in a vehicle where someone other than you or a member of your household was driving (includes school buses, taxis and other private vehicle)?

- Yes.....1
- No.....2 SKIP TO Q.29

Q.28c How many days out of the past thirty days did this child ride in a vehicle driven by someone other than you or another member of your household?

\_\_\_\_\_ (Range=0-30)

Q.28d What is the relationship of the driver or drivers to the child?  
(RECORD MULTIPLE RESPONSE)

- Parent/step-parent.....1
- Brother/sister.....2
- Grandparent.....3
- Other relative.....4
- Teacher/Bus driver.....5
- Parent of friends.....6
- Other non-relative.....7
- (VOL) Don't know.....8
- (VOL) Refused.....9

Q.29 Where would you say it is safest to place a child car seat in the vehicle...in the front seat or in the back seat?

- Front seat.....1
- Back seat.....2
- Depends on type of child car seat.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.30 Some child car seats are designed so that the child faces backward, to the rear of the motor vehicle. Suppose a child is riding in a child car seat facing backward. If the vehicle has a passenger side airbag, is it safe or unsafe to have the child car seat in the front seat?

- Safe.....1
- Unsafe.....2
- Have no idea how air bags work.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.31 Now thinking again about the child car seat the (AGE) usually rides in, did you get the child car seat new or used?

- New.....1
- Used.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.32 Did you purchase the child car seat, did you get it as a gift or loaner from a relative or friend or did you get it from a loaner program?

(NOTE: IF RESPONDENT HAD USED THE CHILD CAR SEAT PREVIOUSLY, PROBE TO DETERMINE WHERE CHILD CAR SEAT ORIGINALLY CAME FROM)

- Purchased.....1
- Gift/Loan.....2
- Loaner program.....3
- Other (SPECIFY).....9
- (VOL) Don't know.....10

IF Q.32=PURCHASED ASK Q.33, ELSE GO TO Q.34

Q.33 Where did you purchase it from?

- Retail store.....1
- Second-hand store/consignment shop.....2
- Garage sale/neighborhood sale.....3
- Other(SPECIFY).....4
- (VOL) Don't know.....5

Q.34 When you are driving and (he/she) is riding in the child car seat, are there ever any times when the child car seat is not attached to the car's seat belt?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.35 Did you ever read or hear of any information or receive any advice about the need to use child car seats from any of the following sources? Did you get any information...

	YES	NO	[VOL] NOT SURE	[VOL] 'REFUSED
a. FROM A DOCTOR OR NURSE.....1		2	3	4
b. FROM A BOOK OR ARTICLE ON CHILD CARE..1		2	3	4
c. FROM ANY OTHER KIND OF BOOK OR ARTICLE.....1		2	3	4
d. FROM INFORMATION ON TV OR RADIO.....1		2	3	4
e. FROM A FAMILY MEMBER OR FRIEND.....1		2	3	4
f. FROM A SAFETY HOTLINE.....1		2	3	4

Q.35g Whose auto safety hotline?

Q.35h Did you hear or read about the need to use child car seats from anywhere else?

- Yes.....1
- No.....2 SKIP TO Q.36
- (VOL) Don't know.....3 SKIP TO Q.36

Q.35i Where?

Q.36 How did you learn to attach the child car seat to the vehicle?  
(MULTIPLE RECORD)

- Read the instructions.....1
- Relative or friend showed me.....2
- Loaner program showed me.....3
- Health professional showed me.....4
- Figured it out myself.....5
- Car seat came attached to car.....6 SKIP TO Q.40
- (VOL) Don't know.....12 SKIP TO Q.38
- (VOL) Refused.....13 SKIP TO Q.38

IF Q.36=1, THEN GO TO Q.38 ELSE GO TO Q.37

Q.37 Did you ever read the instructions?  
(NOTE: IF RESPONDENT SAYS "NO", PROBE TO DETERMINE WHETHER INSTRUCTIONS WERE AVAILABLE)

- Yes.....1
- No.....2
- No, there were no instructions...3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.38 How easy is it for you to attach the child car seat to the vehicle you usually drive...(READ LIST)

- VERY EASY.....1 SKIP TO Q.39b
- SOMEWHAT EASY OR.....2
- NOT EASY AT ALL.....3
- (VOL) Not sure.....4 SKIP TO Q.39b
- (VOL) Refused.....5 SKIP TO Q.39b

Q.39a What is difficult about attaching the child car seat to the vehicle?  
(RECORD VERBATIM RESPONSES ON SAF NEXT TO Q.39a, THEN ENTER "1" TO CONTINUE)

- Gave response to Q.39a.....1
- Don't know/not sure/no answer.....2

Q.39b How confident are you that the car seat is securely attached to the vehicle (that you usually drive)? Are you usually.....

- Very confident.....1
- Fairly confident.....2
- Not too confident.....3
- Not at all confident.....4

Q.39c Have you ever driven with the child in the car seat and later found that the car seat was not securely attached?

- Yes.....1
- No.....2

Q.40 How easy is it for you to properly buckle your child into the child car seat? (READ LIST)

- VERY EASY.....1 SKIP TO Q.41b
- SOMEWHAT EASY OR.....2
- NOT EASY AT ALL.....3
- (VOL) Child buckles him/herself in.....4 SKIP TO Q.41b
- (VOL) Don't know.....5 SKIP TO Q.41b

Q.41a What is difficult about buckling your child into the child car seat?  
(RECORD VERBATIM RESPONSES ON SAF NEXT TO Q.41a, THEN ENTER "1" TO CONTINUE)

- Gave response to Q.41a.....1
- Don't know/not sure/no answer.....2

Q.41b How confident are you that the child is properly buckled into the seat? Are you usually.....

- Very confident.....1
- Fairly confident.....2
- Not too confident.....3
- Not at all confident.....4

Q.42 Has the (AGE) ever gotten himself/herself out of that child car seat when riding with you?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

IF Q.22=ALL THE TIME & Q.23a=>1 YR AGO/ALWAYS SKIP TO Q.50b ELSE Q.43

Q.43 As I'm reading this list, please tell me if this is a reason why the (AGE) does not ride in a child car seat. When my (AGE) doesn't ride in a child car seat, it is sometimes because...)

	YES	NO	[VOL] NOT SURE	[VOL] REFUSED
a. HE/SHE IS TOO BIG.....1	2	3	4	
b. HE/SHE DOESN'T LIKE IT.....1	2	3	4	
c. HE/SHE WON'T STAY IN IT.....1	2	3	4	
d. THERE IS NO ROOM FOR THE SEAT IN THE CAR.....1	2	3	4	
e. HE/SHE WILL ONLY BE IN THE CAR A SHORT TIME.....1	2	3	4	
f. WE ARE IN A HURRY.....1	2	3	4	
g. THE CHILD CAR SEAT ISN'T AVAILABLE.....1	2	3	4	

Q.43h Are there any other reasons why (he/she) doesn't ride in a child car seat?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

IF YES, What other reasons? (Child doesn't ride in a child car seat)

Q.44 When the (AGE) doesn't ride in the child car seat, when riding with you does he/she usually sit on someone's lap, sit by him/herself in the front seat or sit in the back seat?

- Lap of passenger.....1
- Front seat.....2
- Back seat.....3
- Back of station wagon or truck (VOL).....4
- (VOL) Don't know.....10

Q.45a When the (AGE) doesn't ride in the child car seat, when riding with you, how often is he/she buckled in a seat belt? (READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Not sure.....6
- (VOL) Refused.....7

CONDITIONAL: IF Q.44=1 AND Q.45a=1, ASK Q.45b ELSE GO TO Q.50b:

Q.45b Is he/she buckled in a seatbelt when riding in someone's lap?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

IF Q22=NEVER CONTINUE WITH Q46, ELSE GO TO Q50b

Q.46 As I'm reading this list, please tell me if this is a reason why the (AGE) does not ride in a child car seat. My (AGE) doesn't ride in a child car seat because...

	YES	NO	[VOL] NOT SURE	[VOL] REFUSED
a. HE/SHE DOESN'T HAVE ONE.....1	2	3	4	
b. HE/SHE IS TOO BIG.....1	2	3	4	
c. HE/SHE DOESN'T LIKE IT.....1	2	3	4	
d. CHILD WON'T STAY IN IT.....1	2	3	4	
e. CHILD USES A SEAT BELT.....1	2	3	4	
f. THERE IS NO ROOM FOR THE SEAT IN THE CAR.....1	2	3	4	

Q.46g Are there any other reasons why he/she doesn't ride in a child car seat?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

IF YES, What other reasons? (Child doesn't ride in a child car seat)

IF Q.46a=1, ASK Q.47, ELSE SKIP TO Q.48

Q.47 Is there any particular reason why you don't have one?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

IF YES, What is that reason?

Q.48 How often does he/she use a seat belt? (READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME.....3
- RARELY OR.....4
- NEVER.....5
- (VOL) Don't know.....6

Q.49 Did the (AGE) ever ride in a child car seat during the first year of life?

- Yes.....1
  - No.....2
  - (VOL) Don't know.....3
  - (VOL) Refused.....4
- SKIP TO Q.51  
SKIP TO Q.51  
SKIP TO Q.51

Q.50a How often did he/she use the child car seat during that first year? Would you say...(READ LIST)

- ALL OF THE TIME.....1
- MOST OF THE TIME.....2
- SOME OF THE TIME OR.....3
- RARELY.....4
- (VOL) Don't know.....5
- (VOL) Refused.....6

Q.50b Have you ever seen or heard of a type of car seat called a booster seat?

- Yes.....1
  - No.....2
  - (VOL) Don't know.....3
- SKIP TO Q.50e  
SKIP TO Q.50e

Q.50c Have you ever used a booster seat when driving with your children?

- Yes.....1
  - No.....2
  - (VOL) Don't know.....3
  - (VOL) Refused.....4
- SKIP TO Q.50e  
SKIP TO Q.50e  
SKIP TO Q.50e

Q.50d At what age did you begin using a booster seat for your children?

\_\_\_\_\_ AGE AT FIRST USE OF BOOSTER SEAT

IF Q.22=5, SKIP TO Q.51

Q.50e When your child outgrows his/her current car seat, do you expect him/her to use a different type of car seat, a seat belt or something else?

- Different seat.....1
- Seat belts.....2
- Other (SPECIFY).....3
- \_\_\_\_\_ (VOL) Nothing.....4

Q.51 How do you personally feel about the police enforcement of child car seat laws? On a scale of 1 to 10, where 1 means police hardly ever give a ticket for violations of child car seat laws and 10 means police give a ticket at every opportunity for violations of child car seat laws, how strict should police enforcement be?

- 1=Police hardly ever give a ticket for violations
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10=Police give a ticket at every opportunity
- 11.....(VOL) Don't know
- 12.....(VOL) Refused

Q.52 What do you think the minimum fine should be for violation of child car seat laws?

- No fine/warning.....0
- Less than \$25.....1
- \$25-49.....2
- \$50-74.....3
- \$75-99.....4
- \$100 or more.....5
- Not sure.....6

Q.53 What about when children under the age of 6 outgrow a child car seat? Do you agree or disagree that they should be required by law to wear seat belts when riding in a vehicle?

- Agree.....1
  - Depends on age.....2
  - Disagree.....3
  - (VOL) Don't know.....4
  - (VOL) Refused.....5
- SKIP TO Q.55  
SKIP TO Q.55  
SKIP TO Q.55

Q.54 How old do you think children should be before they are not required by law to wear seat belts or do you think all children should wear them?

\_\_\_\_\_ AGE (Range: 0-21) 0=SHOULD NOT BE REQUIRED AT ANY AGE

Q.55 If there was a number you could call to report child car seat violations by others, how likely do you think you would be to use it if you saw a violation? (READ LIST)

- VERY LIKELY.....1
- SOMEWHAT LIKELY OR.....2
- NOT VERY LIKELY.....3
- (VOL) Would depend on the nature of the violation.....4
- (VOL) Don't know.....5

Now, I'd like to ask you a few questions about airbags.

Q.56a Does the (car/truck/van) you normally (drive/ride in) have an airbag?

- Yes.....1
  - No.....2
  - (VOL) Don't know..3
  - (VOL) Refused.....4
- SKIP TO Q.56c  
SKIP TO Q.56c  
SKIP TO Q.56c

Q.56b Is the airbag for the driver only, or is there also a passenger side airbag?

- Driver only.....1
- Driver and passenger.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

Q.56c Based on what you know or have heard, how likely is it that an adult sitting in the front seat would be injured by an airbag when it opens normally? Are they ... (READ)?

- Very likely to be injured.....1
- Somewhat likely to be injured.....2
- Somewhat unlikely.....3
- Very unlikely.....4

Q.56d How likely is it that a small child sitting in the front seat would be injured by an airbag when it opens normally?

- Very likely to be injured.....1
- Somewhat likely to be injured.....2
- Somewhat unlikely.....3
- Very unlikely.....4

Q.56e Based on what you know or have heard, can an airbag smother an infant or small child sitting in the front seat, when it opens up?

- Yes.....1
- No.....2 **SKIP TO Q.56g**

Q.56f Where did you hear or learn about this?

- It's obvious.....0
- Television.....1
- Radio.....2
- Magazines.....3
- Newspapers.....4
- Auto dealers.....5
- Mechanics.....6
- Police.....7
- Friends/co-workers...8
- Insurance agent.....9
- Other (SPECIFY).....10

Q.56g Based on what you know or have heard, can an airbag crush an infant or small child sitting in the front seat, when it opens up?

- Yes.....1
- No.....2 **SKIP TO Q.56i**

Q.56h Where did you hear or learn about this?

- It's obvious.....0
- Television.....1
- Radio.....2
- Magazines.....3
- Newspapers.....4
- Auto dealers.....5
- Mechanics.....6
- Police.....7
- Friends/co-workers...8
- Insurance agent.....9
- Other (SPECIFY).....10

Q.56i Some people are very concerned about letting an infant in a car seat ride in the back (seat), unattended. Others are more concerned about letting an infant ride in the front seat, when the vehicle has passenger side airbags. How do you feel? In vehicles with airbags, do you feel it is safer to let an infant ride in a car seat in the back seat, or in a car seat in the front seat with the airbag?

- Safer in the back seat.....1
- Safer in the front seat.....2
- (VOL) Not sure.....3

Q.57a Now I would like to ask you some questions about bicycle use. Have you ridden a bicycle at all during the past 30 days? Do NOT include stationary or exercise bikes.

- Yes.....1
- No.....2 SKIP TO Q.58
- (VOL) Don't know.....3 SKIP TO Q.58
- (VOL) Refused.....4 SKIP TO Q.58

Q.57b How many days in the last 30 days did you ride a bicycle?

\_\_\_\_\_ (Range: 0-30) DON'T KNOW=31 REFUSED=32

SKIP TO Q.59

Q.58 Have you ridden a bicycle at all during the past 12 months? Do not include stationary or exercise bikes.

- Yes.....1
- No.....2 SKIP TO Q.62
- (VOL) Don't know.....3 SKIP TO Q.62
- (VOL) Refused.....4 SKIP TO Q.62

Q.59 Do you usually wear a bicycle helmet when you ride a bike?

- Yes.....1
- No.....2
- (VOL) Don't know.....3
- (VOL) Refused.....4

IF ANY CHILDREN UNDER AGE 6 AND ADULT RIDES ASK Q.60 ELSE Q.62

Q.60 Do you ever bicycle with (your child/any of your children) under age 6 seated on the bike with you?

- Yes.....1
- No.....2 SKIP TO Q.62
- (VOL) Don't know.....3 SKIP TO Q.62
- (VOL) Refused.....4 SKIP TO Q.62

Q.61 (Does he/she/Do they) usually wear a helmet when riding with you?

- Yes.....1
- No.....2
- (VOL) Depends on which child.....3
- (VOL) Don't know.....4

IF Q.13=AT LEAST 1 CHILD 4-12 ASK Q.62 FOR 1 RANDOMLY SELECTED CHILD

IF Q.13=NO CHILDREN 4-12 SKIP TO Q.65

Q.62 During the past 12 months, has the (AGE) ridden a bicycle? Do NOT include tricycles; DO include two-wheelers with training wheels.

- Yes.....1
- No.....2 SKIP TO Q.65
- (VOL) Don't know.....3 SKIP TO Q.65
- (VOL) Refused.....4 SKIP TO Q.65

Q.63 Does he/she have a bicycle helmet?

- Yes.....1
- No.....2 SKIP TO Q.65
- (VOL) Don't know.....3 SKIP TO Q.65

Q.64a Does he/she usually wear it?

- Yes.....1 SKIP TO Q.65
- No.....2 SKIP TO Q.65
- (VOL) Don't know.....3

Q.64b Why not? (RECORD VERBATIM RESPONSES ON SAF NEXT TO Q.64b, THEN ENTER "1" TO CONTINUE)

- Gave response to Q.64b.....1
- No reason/don't know/not sure/refused.....2

Q.65 Do you favor or oppose laws which require children to wear bicycle helmets? (DO NOT READ LIST)

- Favor.....1
- Oppose.....2
- Depends on age of child.....3
- Depends on where they ride/type of street.....4
- (VOL) Don't know.....5
- (VOL) Refused.....6

Q.66 How much do you think school training programs on bicycling and bicycle safety could reduce the number of bicycle injuries and deaths? Do you think school programs could reduce injuries and deaths by a lot, some, a little or none at all?

- A lot.....1
- Some.....2
- A little.....3
- None at all.....4
- (VOL) Don't know.....5
- (VOL) Refused.....6

Q.67a Now I'd like to ask you some questions about a subject you may not know much about. Can you tell me what the initials "EMS" stand for?

- Yes, Emergency Medical Services/Systems.....1
- Yes, wrong answer.....2
- No.....3
- (VOL) Don't know.....4
- (VOL) Refused.....5

Q.67b Other response to what "EMS" stands for

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IF GAVE WRONG ANSWER ON Q.67a READ THIS STATEMENT, ELSE GO TO Q.68a  
 Lots of people don't know it, but EMS stands for Emergency Medical Services.  
 This includes ambulance and rescue squads and hospital emergency services



Q.72c How long ago did that occur (the last time)?

- Today.....1
- Within past week.....2
- Within past month....3
- Within past year.....4
- A year or more ago...5
- (VOL) Don't know.....6
- (VOL) Refused.....7

Q.72d Did you call for police, fire, an ambulance or something else?

- Police.....1
- Fire.....2
- Ambulance.....3
- Other (SPECIFY).....4

Q.72e When you called the emergency number, were you able to reach someone.....

- Right away.....1
- Only after awhile.....2
- Not at all.....3

Q.73 In the past 5 years, have you taken any kind of emergency or first aid training?

- Yes.....1
  - No.....2
  - (VOL) Don't know.....3
  - (VOL) Refused.....4
- SKIP TO Q.75  
SKIP TO Q.75  
SKIP TO Q.75

Q.74 Who provided the training?

- Work.....1
- School.....2
- Doctor/Health professional.....3
- Other.....9
- (VOL) Don't know.....10
- (VOL) Refused.....11

Q.75 Assuming it was at low cost and in a convenient location, how interested would you be in taking training on how to assist injured persons in vehicle crashes? (READ LIST)

- VERY INTERESTED.....1
  - SOMEWHAT INTERESTED OR.....2
  - NOT INTERESTED.....3
  - (VOL) Already have EMS training.....4
  - (VOL) Depends.....5
  - (VOL) Don't know.....6
  - (VOL) Refused.....7
- SKIP TO Q.77  
SKIP TO Q.77  
SKIP TO Q.77  
SKIP TO Q.77

Q.76 If the training took no more than two hours in a single class session, how likely would you be to take such a class? (READ LIST)

- VERY LIKELY.....1
- SOMEWHAT LIKELY.....2
- SOMEWHAT UNLIKELY.....3
- VERY UNLIKELY.....4
- (VOL) Not sure.....5
- (VOL) Refused.....6

Q.77 Suppose that you are driving, you see an accident happen and no one is there at the scene to help. What concerns might you have about stopping to help? Anything else?  
 DO NOT READ LIST. MULTIPLE RECORD.

- No concerns.....1
- Lawsuits/liability.....2
- Not knowing what to do/how to help.....3
- Trick to get you to stop.....4
- Causing further injury to victim.....5
- Other (SPECIFY).....13

Q.78 How likely would you be to stop? Do you think that you...(READ)?

- Definitely would stop.....1 SKIP TO Q.80
- Probably would stop.....2
- Probably would not stop.....3
- Definitely would not stop.....4
- (VOL) Depends.....5

Q.79 What would prevent you from stopping?

- Nothing.....1
- Fear of Lawsuits/liability.....2
- Not knowing what to do/how to help.....3
- Fear that it was trick to get you to stop.....4
- Fear of causing further injury to victim.....5
- Other (SPECIFY).....13

Q.80 Suppose you are driving, you see an accident and think that someone might be injured, but it is too dangerous to pull over and help at the scene. How likely would you be to call for help from the nearest available phone (if no one else was on the scene)? Do you think that you...(READ)?

- Definitely would call.....1
- Probably would call.....2
- Probably would not call.....3
- Definitely would not call.....4
- (VOL) Depends.....5

Q.81 What, if anything, would prevent you from telephoning for help?

Nothing.....00

Q.82a Do you have a car phone or (ever) carry a cellular phone in the motor vehicle you usually drive.....?

- Yes.....1
- No.....2 SKIP TO Q.83a

Q.82b Is the phone installed in the vehicle, or is it a portable model?

- Installed.....1
- Portable.....2

Q.82c How often do you talk on your car phone when you are driving? Do you talk on your car phone.....

- On most trips in your motor vehicle.....1
- On about half of your trips.....2
- On less than half of your trips.....3
- On very few trips, or.....4
- Never.....5

Q.82d Have you ever used a car phone or cellular phone to report an emergency while you were driving or riding in a motor vehicle?

- Yes.....1
- No.....2

Q.82e What kind of emergency did you call about?

\_\_\_\_\_

Q.83a Have YOU ever been injured in a vehicle accident? Only count injuries that required medical attention.

- Yes.....1
- No.....2 SKIP TO Q.90
- (VOL) Don't know.....3 SKIP TO Q.90
- (VOL) Refused.....4 SKIP TO Q.90

Q.83b How many times did this happen?

\_\_\_\_\_ DON'T KNOW=98 REFUSED=99

IF MORE THAN ONE IN Q83b, ASK Q83c, ELSE SKIP TO Q83d

Q.83c How old were you the first time that you were injured in a motor vehicle accident?

\_\_\_\_\_ NOT SURE=98 REFUSED=99

Q.83d How long ago did (that/your most recent) accident occur?

\_\_\_\_\_ NUMBER OF YEARS AGO  
WITHIN THE PAST YEAR=0 NOT SURE=98 REFUSED=99

Q.83e In what state did (that/most recent) crash occur?

\_\_\_\_\_

Q.83f Were you a driver or a passenger in that accident?

- Driver.....1
- Passenger.....2
- (VOL) Pedestrian....3
- Other (SPECIFY).....4

IF Q83f=3, SKIP TO Q.85

Q.84 Were you wearing your seat belt at the time of the accident?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.85 At which of the following were you treated for your injuries? Were you treated at ..(READ LIST. MULTIPLE RECORD)?

- Hospital emergency room.....1
- Doctor's office.....2
- Clinic.....3
- At accident scene.....4
- Other (SPECIFY).....5

Did not need treatment.....6 SKIP TO Q.87b

Q.86 Were you transported from the accident scene by ambulance or helicopter?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.87a Were you hospitalized for at least one full night?

- Yes.....1
- No.....2
- (VOL) Don't know.....3

Q.87b Did you receive injuries that prevented you from performing any of your normal activities (work, school, household) for at least a week?

- Yes.....1
- No.....2 SKIP TO Q.88
- (VOL) Don't know.....3 SKIP TO Q.88
- (VOL) Refused.....4 SKIP TO Q.88

Q.87c Were there any activities that you were unable to resume because of your injuries even a year after the accident?

- Yes.....1
- No.....2
- Happened less than 1 year ago.....3
- (VOL) Not sure.....4

**IF YES IN Q.87b SKIP TO Q.90**

Q.88 Have you EVER received injuries from a vehicle accident that prevented you from performing any of your normal activities (work, school, household) for at least a week?

- Yes.....1
- No.....2 SKIP TO Q.90
- (VOL) Don't know.....3 SKIP TO Q.90
- (VOL) Refused.....4 SKIP TO Q.90

Q.89 Were there any activities that you were unable to resume because of your injuries even a year after the accident?

- Yes.....1
- No.....2
- Happened less than 1 year ago.....3
- (VOL) Not sure.....4
- (VOL) Refused.....5

Q.90 Now I'm going to ask you a few questions about alcohol use. During the past 30 days, that is, since this (MONTH), have you had at least one drink of any alcoholic beverage, including liquor, beer, wine or wine coolers?

- Yes.....1 SKIP TO Q.92
- No.....2
- (VOL) Not sure.....3

Q.91 Did you drink any alcoholic beverages at all during the past 12 months?

- Yes.....1 SKIP TO Q.93
- No.....2 SKIP TO Q.97
- (VOL) Not sure.....3 SKIP TO Q.97
- (VOL) Refused.....4 SKIP TO Q.97

Q.92 How many days out of the past 30 days did you drink alcoholic beverages?  
\_\_\_\_\_ (Range: 0-30) NOT SURE=31 REFUSED=32

Q.93 On the average, how many drinks did you typically have on the days you drank?  
\_\_\_\_\_ (Range: 1-12) MORE THAN 12=13 NOT SURE=14 REFUSED=15

IF Q.1=NEVER OR Q.90=NO SKIP TO Q.97 ELSE ASK Q.94

Q.94 During the past 30 days, have you driven a vehicle after you had been drinking alcohol?

- Yes.....1
- No.....2 SKIP TO Q.97
- (VOL) Not sure.....3 SKIP TO Q.97
- (VOL) Refused.....4 SKIP TO Q.97

Q.95 How many days out of the past 30 days did you drive after drinking alcoholic beverages?  
\_\_\_\_\_ (Range: 0-30) NOT SURE=31 REFUSED=32

Q.96 During the past 30 days, have you driven a vehicle when you might have consumed too much alcohol to drive safely?  
Yes.....1  
No.....2  
(VOL) Not sure.....3  
(VOL) Refused.....4

Now I would like to ask you just a few more questions about yourself and then we will be done.

Q.97 Are you of Spanish or Hispanic origin?  
Yes.....1  
No.....2  
(VOL) Not sure.....3  
(VOL) Refused.....4

Q.98 Which of these categories best describes your racial background?  
White.....1  
Black or African-American.....2  
Asian or Pacific Islander.....3  
Eskimo, Aleutian or American Indian.....4  
Mixed.....5  
Other (SPECIFY).....6

(VOL) Refused.....9

Q.99 Are you married, divorced, widowed, separated or have you never been married?  
Married.....1  
Divorced.....2  
Widowed.....3  
Separated.....4  
Never been married.....5  
A member of an unmarried couple.....6  
(VOL) Refused.....7

Q.100 What is the highest grade or year of school you completed?

- 8th grade or less.....8
- 9th grade.....9
- 10th grade.....10
- 11th grade.....11
- 12th grade/GED.....12
- Some college.....13
- College graduate or higher.....14
- (VOL) Refused.....15

Q.101 Which of the following categories best describes your total household income before taxes in 1995?  
Was your total household income [READ LIST]

- Less than \$5,000.....1
- \$5,000 to \$14,999.....2
- \$15,000 to \$29,999.....3
- \$30,000 to \$49,999.....4
- \$50,000 to \$74,999.....5
- \$75,000 to \$99,999.....6
- \$100,000 or more.....7
- Not sure (VOL).....8
- Refused (VOL).....9

Q.102 Are you currently employed for wages, self-employed, out of work, a homemaker, a student, retired or unable to work? **MULTIPLE RECORD**

- Employed for wages.....1
- Self-employed.....2
- Out of work.....3
- Homemaker.....4
- Student.....5
- Retired.....6
- Unable to work.....7
- (VOL) Refused.....8

Q.103 Do you have more than one telephone number in your household?

- Yes.....1
- No.....2 SKIP TO Q.105
- (VOL) Refused.....3

Q.104 How many different telephone numbers do you have?

\_\_\_\_\_ DON'T KNOW=11 REFUSED=12

Q.105 Finally, could you tell me the zip code where you live?

\_\_\_\_\_ REFUSED=99999

Q.106 FROM OBSERVATION, ENTER SEX OF RESPONDENT

- Male.....1
- Female.....2

That completes the survey.  
Thank you very much for your time and cooperation.

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