2013–2014

NATIONAL ADULT TOBACCO SURVEY (NATS) SAMPLE DESIGN AND METHODOLOGY REPORT

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1. INTRODUCTION

The 2013−2014 National Adult Tobacco Survey (NATS), a stratified, random digit dialed (RDD), telephone survey of non-institutionalized adults 18 years of age and older, was conducted from October 2013 to October 2014. The survey was part of a collaborative effort between the U.S. Centers for Disease Control and Prevention (CDC) and the U.S. Food and Drug Administration (FDA). The purpose of the survey was to determine the prevalence and correlates of tobacco use behaviors among a nationally representative sample of U.S. adults.

Data were collected by 263 interviewers who completed 70,487 full interviews and 4,746 eligible partial interviews for a total of 75,233 qualified interviews. Throughout this document, references to "completes" or "completed surveys" includes eligible partials unless otherwise stated. Eligible partial interviews consist of records where the respondent answered through Question 83: Marital Status, which is the first demographic question, and 59% of the total number of interview questions. The completion threshold of 59% was based on common industry practices for similar health-related surveys and ensured that eligible partial interviews included all questions needed to determine smoking status and to determine use of all assessed tobacco products. A total sample of 75,233 cases were used for weighting the data.

2. THE NATS INSTRUMENT

2.1 NATS INSTRUMENT BACKGROUND

The CDC and the American Legacy Foundation originated the NATS, which was previously administered as a one-time survey in 2009−2010. The original NATS questionnaire was designed using constructs from the Key Outcome Indicators for Evaluating Comprehensive Tobacco Control Programs, CDC's comprehensive framework for evaluating tobacco control programs. It was developed to evaluate progress towards National Tobacco Control Program (NTCP) and Healthy People 2020 goals.

As part of a collaboration effort between the the CDC and FDA, the 2012−2013 NATS was revised to add items to inform the FDA's tobacco regulatory activities in protecting the public's health. Measures added to the questionnaire assessed nicotine dependence, risk perceptions, susceptibility of initiation among young adults and exposure to marketing. Questions were expanded to encompass the full spectrum of products currently available on the market.

In 2013−2014 the NATS was further revised by adding 17 questions, deleting 3 questions, and modifying 9 questions. Specifically,

- A question about cigarette brands was added to gather information on brand preference among cigarette consumers and obtain price-related promotions information by brand (Q10 CIGARBRAND, CIGARBRAND_OTH). A similar question was included in the 2009−2010 NATS.
- In order to monitor the use of flavored tobacco products, consumers of flavored tobacco products were asked the flavor(s) of each tobacco product used (Q26 CIGARFLAV2A-F and CIGARFLAV2_OTH, Q38 PIPEFLAV2A-F and PIPEFLAV2_OTH, Q44 ECIGFLAV2A-F and ECIGFLAV2_OTH, Q61 SMKLSFLAV2A-F and SMKLSFLAV2_OTH)
- The single gender question was split into two different questions to gather both current gender (Q90 GENDER) and gender at birth (Q91 GENDERB).
- Two questions about cell phone usage were removed because they were no longer needed for weighting purposes.
- Five questions, similar to questions included in the 2009−2010 NATS, were added (Q92 EMPLOY2, Q99 HOUSINGTYPE, Q136 SMOKHOME7D2, Q138 SHSEXPWORK, Q139 SHSWORKPOL). Topics covered in the questions included:
  - Employment status and smoke exposure at work; and
  - Housing type and smoke exposure at home.
- A question asking about how harmful the respondent thinks using dissolvable tobacco is to a person's health was replaced by a similar question asking about the perceived harmfulness of electronic cigarettes (Q127 HARMECIG).
- The series of questions measuring exposure to different types of tobacco marketing and promotion were modified. Previously, these questions only asked about direct mail and were altered to include e-mail. They were also adapted to differentiate between companies that market e-cigarettes and companies that manufacture cigarettes or other tobacco products (Q101 RECEIVPROMO1A-2D).

- A question for current tobacco users was deleted. The question asked how concerned respondents were about their smoking affecting the health of someone else.
- A series of questions designed to collect information about purchasing habits of cigarette consumers and obtain information on tax avoidance and evasion was added (Q117 BUYST, Q118 BUYST2, Q119 BUYRES, Q120 BUYST3). These questions asked about purchase of tobacco products outside the respondent's state or country, and on Indian reservations.
- A question about quitting other tobacco products was modified. In 2012-2013, Q59 OTHQUITALL, asked whether respondents who used cigarettes and another product completely quit using all tobacco products. In 2013-2014, the wording was modified to insert the specific products used, tailoring the text for each respondent based on the products used. A new variable name was assigned: Q64 QUITCOM.
- In 2013-2014, the question about the brand name of the cigar, cigarillo, or little filtered cigar (Q26 CIGARBRAND) included a list of common brands. In 2012-2013 it was an open-ended question. During the 2012-2013 NATS, as well as during Oct 2013-Jan 2014 the question was not asked of respondents who did not have a usual size of cigar that they smoked. Starting in February 2014, it was asked of respondents who did not have a usual size.

2.2 QUESTIONNAIRE CONTENT

The questionnaire was divided into 12 sections. *Table 2-1* identifies these sections and the number of questions within each section. The table also shows the total number of non-tobacco-related questions within each section. The content was very similar to the 2012–2013 NATS questionnaire, with the exception of the changes described above.

Table 2-1. NATS Questionnaire: Number of Questions by Topic

Section	Total Number of Questions	Non-tobacco-related Questions
Introductory Questions	2	2
Cigarette Smoking	16	0
Susceptibility – Cigarettes	3	0
Other Tobacco Products	44	0
Addiction	7	0
Cessation	8	0
Demographic Items	17	17
Marketing/Public Education	11	0
Purchasing	10	0
Knowledge/Attitudes/Perceptions	13	0
Secondhand Smoke	7	0
Closing Questions	2	2
Total	140	21

2.3 COGNITIVE TESTING

Before fielding the final instrument, selected items were cognitively tested with a total of nine respondents in English and Spanish to identify and remove potential causes of response error.

Respondents with a variety of demographic backgrounds were recruited for the cognitive testing, using a database of opt-in respondents from a contractor company.

To be eligible, participants had to be 18 years of age or older and be a current or former smoker. An additional eligibility requirement was that respondents must not have participated in any interview or focus group for at least 30 days prior to the NATS interviews.

Each respondent received an informed consent form, which included a description of the study, potential risks of participating, the right to terminate participation at any point in time, steps taken to protect anonymity, and how interview information would be handled and used.

Only new questionnaire items or revised items were tested. Interviewers administered the selected items from the questionnaire, using follow-up probes focused primarily on item interpretation and ease of response.

Each respondent received $75 as compensation for his or her time. A full report of cognitive testing results was delivered to FDA and CDC in August of 2013.

2.4 TRANSLATIONS

The Spanish translation of the 2012−2013 NATS questionnaire was updated for use during the 2013−2014 survey year. New or revised questions were translated utilizing culturally appropriate source document preparation and back translations.

3. SAMPLING METHODOLOGY

3.1 SAMPLE DESIGN

The sample design was a dual-frame RDD sample, with independent samples drawn from landline and cell phone frames. The NATS 2013–2014 used a non-overlapping design, where the cell phone frame was used only to find households that were cell-phone only (i.e., households that rely exclusively on cell phones because they do not have a landline to use for receiving calls). The samples from each frame were also disproportionately stratified by state to ensure adequate representation of each state, as well as higher numbers of completed surveys from states with larger populations. Listed landline phone numbers (numbers that were matched to an address) were over-sampled versus unlisted numbers at a ratio of 1.5 to 1. Cell phone numbers were screened for activity status using Marketing Systems Group's (MSG's) Cell-WINS service. Cell numbers that were flagged as active were over-sampled versus numbers with inactive or unknown status at a ratio of 3.6 to 1.

A total of 1,649,040 phone numbers were sampled through the RDD process, including 1,057,053 landline numbers and 591,987 cell phone numbers. The universe for the 2013–2014 NATS consisted of non-institutionalized adults (ages 18 years and older) residing in the 50 states and the District of Columbia (DC). Interviews were not conducted with adults living in group quarters. Group quarters (GQ) are places where people live or stay, in a group living arrangement, which is owned or managed by an entity or organization providing housing and/or services for the residents.

ICF International, a contractor company, selected both the cell and landline RDD samples using Virtual Genesys, an online sampling system provided by Marketing Systems Group (MSG).

The sample design for the 2013–2014 NATS had specific semi-proportional goals by state and by sample frame. Each state and the overall sample goals included 30 percent cell-only households and 70 percent landline households (regardless of whether they also had a cell phone).

The state goals included a minimum of 1,000 combined completes (700 landline and 300 cell-only) from each state. Thirty states plus the District of Columbia had goals of 1,000 interviews, accounting for 31,000 of the 75,000 target completes. The 20 most populous states had goals above 1,000 interviews, with the remaining 44,000 completes distributed across these states in approximate proportion to their populations.

ICF actively tracked data collection progress throughout the study and adjusted the number of sampled records for each target a monthly basis. Actual production yielded numbers of complete surveys that were very close to state goals, and ICF met between 98.5 percent and 102.5 percent of the goal for each state. *Table 3-1* compares the actual numbers of completed surveys by state for each sample type and overall.

Table 3-1. Completes and Goals, by State and Sample Type

State	Landline Sample			Cell Sample			Overall		
	Completes	Goal	% of Goal Met	Completes	Goal	% of Goal Met	Completes	Goal	% of Goal Met
Alabama	704	700	100.6%	301	300	100.3%	1,005	1,000	100.5%
Alaska	701	700	100.1%	300	300	100.0%	1,001	1,000	100.1%
Arizona	898	879	102.2%	385	377	102.3%	1,283	1,255	102.2%
Arkansas	697	700	99.6%	301	300	100.3%	998	1,000	99.8%
California	4,891	4,904	99.7%	2,107	2,102	100.2%	6,998	7,005	99.9%
Colorado	700	700	100.0%	306	300	102.0%	1,006	1,000	100.6%
Connecticut	697	700	99.6%	302	300	100.7%	999	1,000	99.9%
Delaware	722	700	103.1%	298	300	99.3%	1,020	1,000	102.0%
District of Columbia	695	700	99.3%	298	300	99.3%	993	1,000	99.3%
Florida	2,480	2,458	100.9%	1,055	1,053	100.2%	3,535	3,511	100.7%
Georgia	1,295	1,303	99.4%	573	559	102.6%	1,868	1,862	100.3%
Hawaii	701	700	100.1%	303	300	101.0%	1,004	1,000	100.4%
Idaho	700	700	100.0%	304	300	101.3%	1,004	1,000	100.4%
Illinois	1,690	1,703	99.2%	731	730	100.2%	2,421	2,433	99.5%
Indiana	867	848	102.2%	370	364	101.8%	1,237	1,212	102.1%
Iowa	692	700	98.9%	302	300	100.7%	994	1,000	99.4%
Kansas	702	700	100.3%	302	300	100.7%	1,004	1,000	100.4%
Kentucky	717	700	102.4%	298	300	99.3%	1,015	1,000	101.5%
Louisiana	692	700	98.9%	310	300	103.3%	1,002	1,000	100.2%
Maine	700	700	100.0%	302	300	100.7%	1,002	1,000	100.2%
Maryland	762	755	101.0%	332	323	102.7%	1,094	1,078	101.5%
Massachusetts	883	873	101.2%	380	374	101.6%	1,263	1,247	101.3%
Michigan	1,332	1,307	101.9%	555	560	99.1%	1,887	1,867	101.1%
Minnesota	701	700	100.1%	307	300	102.3%	1,008	1,000	100.8%
Mississippi	692	700	98.9%	293	300	97.7%	985	1,000	98.5%

State	Landline Sample			Cell Sample			Overall		
	Completes	Goal	% of Goal Met	Completes	Goal	% of Goal Met	Completes	Goal	% of Goal Met
Missouri	779	791	98.5%	344	339	101.5%	1,123	1,130	99.4%
Montana	703	700	100.4%	306	300	102.0%	1,009	1,000	100.9%
Nebraska	708	700	101.1%	298	300	99.3%	1,006	1,000	100.6%
Nevada	695	700	99.3%	296	300	98.7%	991	1,000	99.1%
New Hampshire	705	700	100.7%	292	300	97.3%	997	1,000	99.7%
New Jersey	1,158	1,149	100.7%	487	493	98.9%	1,645	1,642	100.2%
New Mexico	699	700	99.9%	302	300	100.7%	1,001	1,000	100.1%
New York	2,589	2,576	100.5%	1,115	1,104	100.9%	3,704	3,680	100.7%
North Carolina	1,228	1,245	98.7%	539	533	101.0%	1,767	1,778	99.4%
North Dakota	714	700	102.0%	303	300	101.0%	1,017	1,000	101.7%
Ohio	1,524	1,517	100.5%	658	650	101.2%	2,182	2,167	100.7%
Oklahoma	701	700	100.1%	296	300	98.7%	997	1,000	99.7%
Oregon	699	700	99.9%	302	300	100.3%	1,001	1,000	100.1%
Pennsylvania	1,662	1,663	100.0%	723	713	101.5%	2,385	2,375	100.4%
Rhode Island	723	700	103.3%	302	300	100.7%	1,025	1,000	102.5%
South Carolina	701	700	100.1%	295	300	98.3%	996	1,000	99.6%
South Dakota	695	700	99.3%	303	300	101.0%	998	1,000	99.8%
Tennessee	862	834	103.4%	354	357	99.1%	1,216	1,191	102.1%
Texas	3,273	3,317	98.7%	1,439	1,422	101.2%	4,712	4,739	99.4%
Utah	700	700	100.0%	300	300	100.0%	1,000	1,000	100.0%
Vermont	701	700	100.1%	299	300	99.7%	1,000	1,000	100.0%
Virginia	1,043	1,047	99.7%	462	449	103.0%	1,505	1,495	100.7%
Washington	891	888	100.4%	377	380	99.1%	1,268	1,268	100.0%
West Virginia	696	700	99.4%	301	300	100.3%	997	1,000	99.7%
Wisconsin	742	746	99.5%	325	320	101.7%	1,067	1,065	100.2%
Wyoming	692	700	98.9%	306	300	102.0%	998	1,000	99.8%
Total	52,594	52,500	100.2%	22,639	22,500	100.6%	75,233	75,000	100.3%

3.1.1 LANDLINE SAMPLES

The NATS landline sample consisted of a list-assisted RDD sample of telephone numbers. To build the list-assisted frame, all possible telephone numbers were divided into blocks (or banks) of 100 numbers (e.g., 617-492-1200 to 617-492-1299). A 100-block is the series of 100 phone numbers defined by the last two digits of a 10-digit telephone number. For phone numbers with the first eight digits in common, there are 100 possible combinations of the last two digits (ranging from 00-99). To enhance efficiency and reduce costs, the frame excludes zero-blocks, i.e., those 100- blocks with zero listed phone numbers. As mentioned above, landline numbers were classified into listed and unlisted substrata based on whether the phone number was linked to an address in MSG's databases. Because listed landline numbers are much more likely to reach residential households, ICF used a sampling ratio of 1.5-to-1 for selection of telephone numbers from the listed and unlisted substrata, respectively to allow greater efficiency. This oversampling increased the sampling efficiency by raising the percentage of working residential numbers selected in the sample. The sample was selected in independent replicates to facilitate the control of the final number of completed interviews.

Telephone numbers were stratified into state-based strata according to the primary state served (by the area code and prefix). Telephone numbers were not pre-dialed by MSG.

3.1.2 CELL PHONE SAMPLE

The cell phone sample was an RDD sample of phone numbers from cell phone exchanges. The cell phone sampling frame contained all possible telephone numbers from cellular-dedicated, "thousand block" sets of telephone numbers with the same area code and prefix. A "thousand block" is a set of 1,000 telephone numbers with the same area code, prefix, first digit of the suffix, and all permutations of the last three digits of the suffix (from 000 to 999). The "thousand block" sets originated from the Telcordia® LERG. The cellular-dedicated banks were then identified by coding provided on the LERG. The NATS cell phone sample was stratified explicitly by state to help control the geographic distribution of the sample. As mentioned above, cell phone numbers were classified into active, inactive, or unknown substrata based on the activity status obtained when MSG's pre-dialed the numbers. The sample cell sample was substratified and ICF oversampled telephone numbers in the active substratum relative to records in the combined inactive and unknown substratum at a ratio of 3.6 to 1. This oversampling increased the sampling efficiency by raising the percentage of working residential numbers selected in the sample. The sample was selected in independent replicates to facilitate the control of the final number of completed interviews.

The goal tracking process for cell-only surveys used the state identified by the area code and prefix of the cell phone number. However, many cell phone respondents likely lived in a state other than the one indicated by their phone number. The state-level analysis and reporting done with the NATS data will use the actual state of residence reported rather than the state indicated by area code and exchange. The actual state of residence was not collected until late in the interview (and then only for people who completed the interview), making it impractical to manage state goals using actual state. The CDC has handled this issue in other nationwide surveys and has found that the net nationwide effect has a relatively minor impact on the overall geographic distribution of cell phone respondents.

4. DATA COLLECTION METHODOLOGY

4.1 PRE-TEST

ICF fielded the pre-test on September 11, 2013 to evaluate the order and flow of the entire questionnaire. A total of nine interviews were conducted; three by cell phone and six by landline telephone. ICF interviewers screened households to identify and conduct interviews with respondents from a variety of demographic backgrounds, with minimum targets within each of the following categories:

- Cigarette smokers and non-smokers;
- Males and females;
- English and Spanish speakers; and
- Respondents younger than 30 and those older than 30.

Recordings of all nine interviews were reviewed by CDC and FDA. Four minor questionnaire changes were identified as a result of the pre-test, described below.

1. The response category "DID NOT BUY ANY CIGARETTE DURING THE PAST 30 DAYS" was added to the cigarette brand question (Q10 CIGBRAND).
2. The length of the introductory text at Q22 CIGARPAST was reduced, as presented in Table 4-1.

Table 4-1. Text Modifications to Question 22 CIGARPAST

Text Modification to Question 22 CIGARPAST	
Prior to Pre-test	**After Pre-test**
The next questions ask about tobacco products that you might smoke other than cigarettes, specifically cigars, cigarillos and little filtered cigars. "Cigarillos" are medium cigars that sometimes are sold with plastic or wooden tips. Some common brands are Black and Mild's, Swisher Sweets, Dutch Masters and Phillies Blunts. Cigarillos are usually sold individually or in packs of 5 or 8. In contrast, little filtered cigars look like cigarettes and are usually brown in color. Like cigarettes, little filtered cigars have a spongy filter and are sold in packs of 20. Some common brands are Prime Time and Winchester little filtered cigars.	The next questions ask about cigars, cigarillos and little filtered cigars. "Cigarillos" are medium cigars that sometimes are sold with plastic or wooden tips. Some common brands are Black and Mild's, Swisher Sweets, Dutch Masters and Phillies Blunts. In contrast, little filtered cigars look like cigarettes and are usually brown in color. Some common brands are Prime Time and Winchester little filtered cigars.

3. Interviewer notes were added to assist with coding Question 96 EMPLOY2:

- INTERVIEWER CODE THE FOLLOWING RESPONSES AS NO: Disabled, unable to work, out of work, retired, a student that is not employed for wages, a homemaker that is not employed for wages.
- INTERVIEWER CODE THE FOLLOWING RESPONSES AS YES: Employed for wages (either part-time or full-time), self-employed.

4. Probes were added to assist with coding Question 99 HOUSINGTYPE:

- PROBE: "A house, an apartment or something else?"
- IF HOUSE: "A one-family house detached from any other house or a one-family house attached to one or more houses"
- IF APARTMENT: "How many apartments or living units?"
- IF SOMETHING ELSE: "A mobile home, boat, RV, van, or some other type of living space?"

4.2 METHODS TO INCREASE SURVEY PARTICIPATION

4.2.1 ADVANCE LETTERS

Advance letters were sent to all sampled households for which addresses were obtained. A copy of the advance letter appears in Appendix B. Letters were double-sided with English on one side and Spanish on the other and were addressed "Dear Resident". Respondent names and addresses were printed on the letter so that they showed through a window on the envelope. All envelopes included the official CDC logo. Because cell phone numbers could not be reverse-matched for addresses, cell phone respondents did not receive an advance letter. *Table 4-2* shows the mail dates and the quantity mailed by month.

Table 4-2: Advanced Mail Dates and Quantities

Sample Wave Month	Mail Date	Quantity
October	10/10/2013	29,517
November	10/30/2013	30,246
December	11/27/2013	23,811
January	12/27/2013	24,109
February	01/28/2014	24,887
March	02/26/2014	24,633
April	03/28/2014	25,129
May	04/25/2014	26,464
June	05/27/2014	27,455
July	07/01/2014	27,370
August	07/29/2014	30,232
September	09/03/2014	39,735
Total		333,588

4.2.2 RESPONDENT VERIFICATION LINE

ICF programmed an inbound Interactive Voice Response (IVR) system with pre-recorded messages about the NATS project. Calls to the toll-free number were seamlessly routed to the IVR. The IVR offered the following menu options:

- Learn more about the study;
- Speak directly to a call center supervisor; and
- Leave a message (e.g., request removal from calling, set up an appointment to do the survey, etc.).

If a respondent chose to speak to a call center supervisor, he or she was routed to a supervisor in the ICF call center who answered respondent questions, routed respondents who wanted to complete the interview, scheduled call-backs, or removed respondents from calling. The IVR script appears in Appendix C.

4.2.3 CALLER ID

ICF pulsed out the text "CDC Survey" and the phone number "802-861-7713" to be displayed on the respondent's Caller ID. If a respondent dialed the phone number displayed on the Caller ID, he or she was routed to the IVR system and offered the menu options described in section 4.2.2.

4.3 INTERVIEWER TRAINING

4.3.1 TRAINING MANUAL AND FAQ DEVELOPMENT

ICF project management staff created a NATS training manual and Frequently Asked Questions (FAQ) sheet for interviewers. The training manual contained information about the survey's background, purpose and scope, population, dialing protocols, and other relevant project information. The FAQ sheet contained pre-emptive refusal aversion statements designed to address respondent concerns, as well as responses to more general respondent questions, such as how phone numbers were selected.

4.3.2 TRAINING

4.3.2.1 BASIC TRAINING

NATS interviewers, as is standard for all ICF interviewers, participated in a general interviewer training upon hire, prior to conducting interviews on any survey. This rigorous two-day training:

- Gave interviewers an excellent foundation in proper interviewing techniques;
- Taught interviewers techniques for gaining respondent trust and cooperation;
- Provided interviewers instruction in how to work efficiently within the Computer-Assisted Telephone Interviewing (CATI) program software;and
- Emphasized the importance of survey work and their role within each of ICF's projects.

Interviewers received extensive hands-on practice with the CATI system and worked through an exhaustive series of practice interviews and interviewing situations.

ICF trainers discussed techniques for:

- Handling difficult situations;
- Probing for answers in challenging situations;
- Identifying the correct adult in the household; and
- Additional refusal aversion/conversion techniques.

Interviewers then conducted more practice interviews with one another. As they practiced, they were monitored by supervisors or senior interviewers who introduced them to a wide variety of different

situations that could arise during an interview. After completing the general interviewer training, new interviewers remained in the "incubator" for two weeks. The incubator provides an environment for less experienced interviewers to receive additional monitoring and supervision. The ratio of floor supervisors and Team Leads to interviewers is 25 to 50 percent higher in the incubator, allowing interviewers to more readily ask questions of supervisors and receive constructive individualized feedback. Time spent in the incubator is considered part of each new interviewer's initial training.

4.3.2.2 NATS-SPECIFIC TRAINING

Each NATS interviewer was specifically selected from ICF's pool of skilled call center personnel. They were assessed on their ability to productively collect accurate data while maintaining rapport with respondents. Interviewers were required to demonstrate effective handling related to: reading verbatim, scheduling re-contact attempts at optimum times, properly following procedures, and knowing how and when to use non-leading probes.

ICF also carefully selected the training staff for NATS interviewers. Trainings were led by a project manager or a senior supervisor with extensive experience on identical or similar projects.

NATS-specific training topics included:

- Survey background and context, including survey purpose and scope;
- Overview of survey population, sample, and sample design;
- Dialing protocol, response rates, and achieving high response;
- Review of survey characteristics, such as the expected survey length, methodology, use of caller ID and IVR information;
- Review of the questionnaires, including topics covered by the survey with a focus on challenging and unique questions, differences between landline and cell phone questionnaire instruments, and the purpose/context of key questions;
- Review of the FAQ document and how to respond to common respondent questions; and
- Discussion of refusal protocol, as well as refusal aversion and conversion techniques.

Prior to dialing on the NATS, interviewers conducted mock interviews using the CATI system to gain experience with NATS questionnaire flow, data entry mechanics, and terminology. A short quiz was administered at the end of the training. If an interviewer produced a low quiz score, he or she was required to go through additional training until adequately prepared for his or her first calls.

4.3.2.3 ONGOING TRAINING

Interviewers participated in Interviewer Enhancement Courses (IEC) monthly. IEC topics included how to navigate gatekeepers, refusal aversion, and topics specific to NATS performance such as refusal conversion for cell phones, and neutral probes. In addition, ICF's quality assurance (QA) staff and project management staff evaluated all interviewers on the project via monitoring sessions. Such monitoring sessions included both past interviews that had been recorded and live interviews in-progress. QA staff and call center supervisors coached interviewers individually based on feedback from the monitoring sessions. If, after coaching, an interviewer's performance did not improve, he or she was removed from working on the study.

4.4 FIELDING PROTOCOL

Fielding protocols were developed based on the Behavioral Risk Factor Surveillance Survey (BRFSS) survey, and adapted for NATS. BRFSS protocol stipulates that each landline record in the sample must receive a terminal disposition or at least 15 attempts (six attempts for cell phones) before calls to the number are ceased. Landline and cell phone sample follow slightly different protocols, to account for user differences. For example, cell phone users tend to carry their phones with them; thus, fewer (6) attempts are recommended on cell phone sample.

There are three day-part calling occasions: Monday through Friday (9am-5pm), Monday through Friday (5pm-9pm), and Saturday and Sunday (9am-9pm).

Landline dialing protocol and day-part attempts were allocated as follows:

- Weekdays: Monday through Friday: 9:00 am - 5:00 pm: three attempts.
- Weeknights: Monday through Friday: 5:00 pm - 9:00 pm: three attempts.
- Weekends: Saturday and Sunday: 9:00 am - 9:00 pm: three attempts.
- Six additional attempts during evening or weekend.
- If a live respondent was reached for the first time at the 12th to 15th attempt, up to four additional evening or weekend attempts were made after the live respondent was reached.

At the beginning of the 2013–2014 NATS, the cell phone dialing protocol and day-part attempts were designed to spread attempts equally across all day-parts. In an attempt to improve cell phone response rates, ICF modified the dialing protocol in July to make more calls during times proven to be the most productive during the first nine months of fielding, as follows:

- Weekdays: Monday through Friday: 9:00 am - 5:00 pm: three attempts.
- Weeknights: Monday through Friday: 5:00 pm - 9:00 pm: two attempts.
- Weekends: Saturday and Sunday: 9:00 am - 9:00 pm: one attempt.
- If a live respondent was reached for the first time on the sixth attempt, up to three additional attempts were made after the live respondent was reached.

Attempts were made until a final disposition was obtained. A final disposition was attained when:

- The respondent completed the interview;
- The telephone number was found to be invalid;
- The record reached 15 attempts for landline sample or six attempts for cell phone sample; or
- The respondent gave a final refusal.

4.4.1 CONTACTING RESPONDENTS

Interviewers followed similar protocols for landline and cell phone interviews when contacting households and potential respondents. The protocols are described below, with those unique to landline and cell phone indicated.

4.4.1.1 TREATMENT OF NO ANSWERS

If a call to a sampled telephone number was not answered, the number was repeatedly called at different times, during the three defined day-parts, on different days of the week, in a pattern designed to maximize the likelihood of contact with a minimum number of calls. At least 15 (landline) or six (cell) contact

attempts, over a minimum five-day period (typically 30 days), were made to reach a sampled number. Once any contact was made at a residence, as many calls as necessary were made to reach the selected adult, or confirmed adult in the case of cell phone surveys.

4.4.1.2 RINGS PER ATTEMPT
The telephone rang a minimum of five times on each attempt made on a record.

4.4.1.3 BUSY LINES
Busy lines were called back at least twice at 20-minute intervals. If the line was still busy after the third attempt, the number was assigned a "busy" disposition and called during the next available shift. For example, if a "busy" disposition was assigned during a Monday through Friday 9am-5pm day-shift, the record was queued by the CATI system for dialing for that weekday evening-shift (5pm-9pm).

4.4.1.4 RESPONDENT SELECTION
Once a household was contacted, an adult was selected for study participation. In the landline study, the questionnaire screener asked for the number of adults in the household, then how many of the adults were men, and how many were women. One adult then was randomly selected for participation by the CATI program. If the selected adult was the person already on the phone, the interviewer proceeded with informed consent and began the interview. If the selected respondent was not the person on the phone, the interviewer asked to speak to the selected respondent.

The cell phone study did not involve a random selection of adults; cell phone respondents were screened for adult status prior to beginning the interview. No interviews were allowed by proxy on either the landline or cell phone studies. If the landline or cell phone respondent could not or would not participate, the record was assigned a final disposition and taken out of dialing.

No interview was conducted if:

1) The adult was:

- Unavailable during the survey period;
- Unable or unwilling to participate; or
- Did not speak English or Spanish well enough to be interviewed.

2) A randomly sampled number yielded:

- A business;
- An institution;
- Group quarters; or
- Other strictly non-residential space.

4.4.1.5 INFORMED CONSENT
Once the interviewer verified that he or she was speaking with the selected respondent, he or she read the following informed consent statement to the respondent:

You don't have to answer any question you don't want to, and you can end the interview at any time. I won't ask for your last name, address, or other personal information that can identify you. Any information you give me will be maintained in a secure manner.

If you have any questions about this survey, I will provide a telephone number for you to call to get more information. [IF NEEDED: 1-877-386-6789] (If a respondent dialed this number, he or she was routed to the IVR system and offered the menu options described in section 4.2.2)

This call may be monitored or recorded for quality assurance.

(IF ASKED): *The interview takes about 15 to 25 minutes to complete, depending on your situation.*

(IF ASKED): *There are no known risks to you for taking part in this interview. There are no direct benefits to you for taking part in this interview, but your answers are important and will help the CDC better understand health issues and plan health programs. Your answers will be maintained in a secure manner. Any information that might identify you, such as your telephone number, will never be linked to your answers and will not appear in any written reports or publications.*

After reading the informed consent, the interview continued, unless the respondent expressed unwillingness to participate.

4.4.1.6 LANGUAGE OF INTERVIEWING
NATS interviewers administered the survey in English and Spanish. The landline sample was sent to Marketing Systems Group (MSG) for Hispanic surname flagging. Records with an address associated with them, and that had a potential Hispanic surname identified, were flagged as such. Interviewers who spoke both English and Spanish dialed landline records with a Hispanic surname flag and interviews were conducted in the respondent's preferred language. Cell phone records, and landline records that did not have a Hispanic surname flag were dialed by an interviewer who spoke English. If the respondent was unable to complete the interview in English, and preferred a Spanish-speaking interviewer, the call was either transferred to a Spanish-speaking interviewer (if available at the time), or a Spanish-speaking interviewer called the respondent back.

4.4.1.7 ANSWERING MACHINES AND PRIVACY MANAGERS
Interviewers were prompted to leave answering machine messages on the first, fourth, and ninth times a landline record reached an answering machine. Privacy managers were handled the same way as answering machines. When an interviewer reached a privacy manager on the first, fourth, or ninth attempt that reached a privacy manager, they were prompted to leave a name or message on the privacy manager and attempt to get through to a respondent. On other attempts that resulted in privacy managers, the interviewer ended the call and gave the record a privacy manager disposition without attempting to get through to a respondent. For cell phone records, messages were left on the first and fourth attempt that reached an answering machine.

4.4.1.8 REFUSAL PROTOCOL
The NATS landline refusal protocol required two refusals by a selected respondent, or three refusals by a non-selected respondent, to terminate the record from calling. Once a household or individual initially refused participation, specially trained refusal conversion interviewers made contact a minimum of three days later, to encourage survey participation.

From October, 2013 through June, 2014 if a respondent in the cell phone sample refused to participate in the survey once, the record was taken out of dialing and given a terminal refusal disposition. Starting in July, 2014, the cell phone refusal protocol required two refusals to terminate the record from calling.

4.4.1.9   CELL PHONE RESPONDENT SAFETY

Cell phone respondents were screened that our call on their cell phone would not compromise their safety (e.g. by driving and talking on the phone). While a safety question appears in the cell phone survey screener, interviewers were trained to schedule a call-back if a respondent indicated at any time during the call that he or she was driving or doing something that would make it unsafe to stay on the phone.

5. QUALITY CONTROL AND ASSURANCE MEASURES

5.1 ADVANCE LETTER QUALITY CONTROL

ICF implemented quality control (QC) measures to guarantee a quality mailing effort. First, project staff reviewed proofs of mailing materials, more specifically, the advance letter and the outer envelope. Once the letters were printed and placed in the envelopes, project staff reviewed the contents of the mailing for more than-ten percent of the sample to ensure that the letters were correct and that all of the information successfully merged onto the letter and the envelopes. Additionally, ICF staff verified that the envelopes were stamped with first-class pre-sort postage, sealed, and had the official CDC logo printed on them once the proofs are approved for printing. More than ten-percent of the sample was quality checked at this state. On inserting the mail materials more than fifty-percent was verified for quality control and assurance.

5.2 TELEPHONE DATA COLLECTION QUALITY CONTROL

ICF followed stringent QA steps to ensure the instrument, interview quality, and data processing met client expectations. Table 5-1 outlines the QC measures ICF employed in an effort to eliminate errors and standardize procedures.

Table 5-1. ICF Quality Control Measures

TASK	Telephone Data Collection Quality Control Measures
CATI Program Testing	• Tested each response to each question, and each path through the survey • Reviewed frequencies from randomly-generated data to ensure that the program was organizing data properly and recording values according to the survey specification • Developed skip-check program to check data against defined conditions specified in the Microsoft Word version of the questionnaire • Provided the client with an electronic test version of the programmed survey
CATI Pre-test Interviewer Training	• Pre-test of nine interviews • Dedicated team of NATS interviewers • General two day training • NATS-specific training led by ICF project management, subsequent trainings led by call center supervisory staff
CATI Quality Assurance (QA)	• Call center monitored at least 10 percent of all interviews (10% sample) • Professional project staff monitored NATS interviewing weekly • Assigned supervisors to manage a team of no more than 10 interviewers • Reviewed call center shift reports and internal project tracking reports daily • Reviewed data alerts indicating issues and fixing any issues immediately

TASK	Telephone Data Collection Quality Control Measures
Preparation of Data Files	• Cleaned and back-coded open-ended responses • Assigned a final disposition to each record • Produced frequency tabulations of every question and variable to detect missing data or errors in skip patterns

TASK	Weighting
Weighting	• Independent review of the weighting code by a second sampling statistician • Checked range and values of adjustments; evaluated selection probabilities • Independent review of definitions of variables used in weighting

5.2.1 MONITORING

The QA monitoring team for the 2013-2014 NATS included the project manager, data collection manager, and call center supervisors and QA assistants. Interviewer monitoring was primarily conducted by QA assistants. QA assistants monitored interviews by tapping into interviewers' telephone lines and using the CATI system's monitoring module to follow the course of the interview on a computer screen. Further, ICF kept a database of all recorded CATI calls occurring during the prior 10 days of fielding. The database housed the majority of attempts, which included everything from completed interviews and introductions, to no-answers (e.g. answering machines, privacy managers). Recorded interviews allowed for additional monitoring and QA tasks.

Interviewers were evaluated on their telephone manner and rapport with the respondents. More specifically, interviewers were assessed on reading the questions verbatim, listening to the comments and questions of respondents and providing accurate probes when necessary, correctly recording the information, and gaining respondent cooperation. Monitoring sessions were rated on a scale from one to 100. The average monitoring score for the 2013-2014 NATS was 96. In all, 263 interviewers were trained and conducted the survey. To further guarantee QC, supervisors were assigned to a maximum of 10 interviewers. Additionally, ICF reviewed call center shift reports and internal project tracking reports daily.

6. OUTCOME RESULTS

There were 52,594 completed surveys in the landline sample and 22,639 completed surveys in the cell sample. Final dispositions were categorized using AAPOR's standard Definitions[1]. A description of the final dispositions and calling rules appears in Appendix A.

Table 6-1 gives the total number of completes, the count of landline completes, count of cell completes, and the response rate for both landline and cell samples using AAPOR RR4 from the AAPOR Standard Definitions.[1] The AAPOR RR4 was calculated using the following formula.

$$(I+P)/((I+P) + (R+NC+O) + e(UH+UO))$$

I	=	Complete interview (1.1);
P	=	Partial interview (1.2);
R	=	Refusal and break-off (2.10);
NC	=	Non-contact (2.20);
O	=	Other (2.30);
UH	=	Unknown if household/occupied HU (3.10);
UO	=	Unknown, other (3.20, 3.30, 3.40, 3.90); and
e	=	Estimated proportion of cases of unknown eligibility that are eligible.

Table 6-1. Landline and Cell Phone Completes: Overall and by State

State	Total Completes	Landline Completes	Cell Completes	Total Response Rate (AAPOR 4)	Landline Response Rate (AAPOR 4)	Cell Response Rate (AAPOR 4)
Total	75,233	52,594	22,639	36.1	47.6	17.1
Alabama	1,005	704	301	37.3	48.2	20.1
Alaska	1,001	701	300	45.3	51.0	33.9
Arizona	1,283	898	385	37.7	47.3	16.8
Arkansas	998	697	301	42.5	52.1	23.1
California	6,998	4,891	2,107	32.4	43.1	14.0
Colorado	1,006	700	306	41.2	51.2	19.7
Connecticut	999	697	302	28.0	44.8	11.2
Delaware	1,020	722	298	31.0	43.6	14.4
District of Columbia	993	695	298	38.2	52.5	13.4
Florida	3,535	2,480	1,055	35.9	47.5	15.9
Georgia	1,868	1,295	573	40.1	49.2	20.6

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[1] Standard Definitions Final Dispositions of Case Codes and Outcome Rates for Surveys, Revised 2011, RDD Telephone Surveys, In-Person Household Surveys, Mail Surveys of Specifically Named Persons, Internet Surveys of Specifically Named Persons, AAPOR
http://www.aapor.org/AM/Template.cfm?Section=Standard_Definitions2&Template=/CM/ContentDisplay.cfm&ContentID=3156.

State	Total Completes	Landline Completes	Cell Completes	Total Response Rate (AAPOR 4)	Landline Response Rate (AAPOR 4)	Cell Response Rate (AAPOR 4)
Hawaii	1,004	701	303	34.1	41.2	13.7
Idaho	1,004	700	304	44.3	53.8	19.3
Illinois	2,421	1,690	731	37.3	48.5	16.9
Indiana	1,237	867	370	38.9	51.3	19.2
Iowa	994	692	302	39.8	51.6	18.9
Kansas	1,004	702	302	41.7	53.1	21.2
Kentucky	1,015	717	298	39.5	50.1	20.4
Louisiana	1,002	692	310	38.9	47.6	21.4
Maine	1,002	700	302	36.8	52.2	17.5
Maryland	1,094	762	332	35.1	47.1	16.4
Massachusetts	1,263	883	380	27.6	40.0	14.9
Michigan	1,887	1,332	555	37.6	50.1	16.3
Minnesota	1,008	701	307	39.4	55.3	18.7
Mississippi	985	692	293	40.8	48.4	22.0
Missouri	1,123	779	344	38.3	51.1	18.8
Montana	1,009	703	306	45.0	56.3	22.1
Nebraska	1,006	708	298	39.6	51.8	17.8
Nevada	991	695	296	32.5	42.1	14.3
New Hampshire	997	705	292	33.5	46.5	15.9
New Jersey	1,645	1,158	487	28.2	41.6	11.8
New Mexico	1,001	699	302	42.1	53.0	20.5
New York	3,704	2,589	1,115	29.6	42.1	13.1
North Carolina	1,767	1,228	539	35.6	46.7	19.1
North Dakota	1,017	714	303	42.9	53.2	24.5
Ohio	2,182	1,524	658	35.4	48.6	15.9
Oklahoma	997	701	296	39.8	48.6	21.5
Oregon	1,001	699	302	41.9	54.8	18.4
Pennsylvania	2,385	1,662	723	31.3	44.6	15.5
Rhode Island	1,025	723	302	14.8	36.0[2]	10.9
South Carolina	996	701	295	36.4	48.2	18.1
South Dakota	998	695	303	45.6	56.7	21.4
Tennessee	1,216	862	354	37.9	48.4	18.7
Texas	4,712	3,273	1,439	38.8	48.4	17.5
Utah	1,000	700	300	45.0	55.0	22.1
Vermont	1,000	701	299	35.7	50.4	19.2
Virginia	1,505	1,043	462	35.5	47.2	18.7
Washington	1,268	891	377	41.3	52.9	18.6
West Virginia	997	696	301	30.0	42.9	17.3
Wisconsin	1,067	742	325	38.2	52.2	18.5
Wyoming	998	692	306	46.1	54.4	31.4

[2] This represents an adjusted rate. The original rate was 17.8%. It was determined that ICF's dialer may not have identified non-working numbers accurately in Rhode Island, maybe due to the type of tone that the telephone company used. ICF sent records from July, August, and September sample months to Marketing Systems Groups for screening. About 60% of the records originally classified as no-answer were classified as nonworking/nonproductive by MSG. The adjusted rate was calculated by changing 60% of the records dispositioned as "no-answer" to "nonworking".

Completes totaled 75,233. Of these, 52,594 were from the landline sample and 22,639 came from the cell phone sample. The overall response rate (AAPOR 4) was 36.1 percent. The landline response rate was 47.6 percent, and the cell phone rate was 17.1 percent.

Table 6-2 shows the frequency of AAPOR result codes by sample frame.

Table 6-2. AAPOR Result Codes

AAPOR Code	AAPOR Result	Landline	Cell	Total
1.1	Complete	49,610	20,877	70,487
1.2	Partial complete	2,984	1,762	4,746
2.1	Break-off/termination within questionnaire	3,887	2,950	6,837
2.111	Household-level refusal	12,157	448	12,605
2.112	Known respondent refusal	3,895	7,573	11,468
2.21	Selected respondent never available	8,317	5,693	14,010
2.32	Selected has impairment	1,722	44	1,766
2.332	Selected has language barrier	515	326	841
3.1	Unknown if housing unit	115,663	234,432	350,095
3.12	Always busy	20,121	12,275	32,396
3.13	No answer	74,525	56,719	131,244
3.14	Answering machine, unknown if household	37,718	101,121	138,839
3.15	Telecomm barrier (Call block)	546	329	875
3.2	Household, unknown if eligible	13,314	9674	22,988
4.1	Reached wrong geographic location	133	163	296
4.2	Dedicated fax/data/modem line	38,485	589	39,074
4.3	Non-working	610,610	77,164	687,774
4.42	Cell (on landline study)	1,108	0	1,108
4.43	Call forwarding	1,040	7,140	8,180
4.44	Pagers	35	22	57
4.45	Cell with landline (on cell study)	0	20,610	20,610
4.46	Landline (on cell study)	0	940	940
4.5	Non-residence	59,207	18,983	78,190
4.53	Group home	1,151	85	1,236
4.7	Household, no eligible respondent	309	12,068	12,377
Total		1,057,052	591,987	1,649,039

Table 6-3 gives the overall AAPOR refusal rates, cooperation rates, and contact rates for the landline and cell samples using AAPOR's standard definitions[1]. ICF also used AAPOR's definitions for the refusal, cooperation, and contact rates (Table 6-4).

The refusal rates generally consist of "the proportion of all cases in which a housing unit or the respondent refuses to be interviewed, or breaks-off an interview, of all potentially eligible cases". The cooperation rates generally consist of "the proportion of all cases interviewed of all eligible units ever contacted". The contact rates generally consist of "the proportion of all cases in which some responsible housing unit member was reached".

Table 6-3. NATS Overall AAPOR Refusal, Cooperation, and Contact Rates by Sample Type

	Total	Landline	Cell

N	1,649,039	1,057,052	591,987
AAPOR Refusal Rate 1	3.9	5.8	2.4
AAPOR Refusal Rate 2	14.9	18.1	8.3
AAPOR Refusal Rate 3	25.2	24.0	27.7
AAPOR Cooperation Rate 1	64.8	66.4	61.4
AAPOR Cooperation Rate 2	69.2	70.3	66.6
AAPOR Cooperation Rate 3	66.4	68.4	62.1
AAPOR Cooperation Rate 4	70.9	72.5	67.4
AAPOR Contact Rate 1	13.6	21.7	7.5
AAPOR Contact Rate 2	52.2	67.7	25.7
AAPOR Contact Rate 3	88.6	90.0	85.7

Table 6-4. AAPOR Refusal, Cooperation, and Contact Rate Definitions

Cooperation Rate 1
I/(I+P)+R+O)
Cooperation Rate 2
(I+P)/((I+P)+R+0))
Cooperation Rate 3
I/((I+P)+R))
Cooperation Rate 4
(I+P)/((I+P)+R))

Refusal Rate 1
R/((I+P)+(R+NC+O) + UH + UO))
Refusal Rate 2
R/((I+P)+(R+NC+O) + e(UH + UO))
Refusal Rate 3
R/((I+P)+(R+NC+O))

Contact Rate 1
(I+P)+R+O / (I+P)+R+O+NC+ (UH + UO)
Contact Rate 2
I+P)+R+O / (I+P)+R+O+NC + e(UH+UO)
Contact Rate 3
(I+P)+R+O / (I+P)+R+O+NC

Computed contact rates vary widely depending on the definition used. Contact Rate 1 assumes that all non-contacted numbers were potentially eligible households or cell respondents while Contact Rate 3 assumes that almost all of these uncontacted numbers were ineligible. These formulas represent the extremes, whereas the assumption of Contact Rate 2 is that some percentage of these numbers was eligible.

6.1 Efforts to Boost Response Rates for the Cell Phone Sample

The response rate, as calculated by AAPOR RR4, was lower than expected for the cell phone sample (17.1%). Cell phone numbers were screened for activity status using MSG's CellWINS service and working numbers were over-sampled. Over-sampling working numbers negatively impacts the AAPOR RR4 response rates because the percent of ineligible records decreases. ICF calculated an adjusted rate to account for the difference in sampling. The adjusted rate was calculated by weighting the inactive numbers by the same rate that was used for oversampling the active numbers. The adjusted AAPOR RR4 for cell phone sample was 22.4 percent, a 5.3 percent increase.

ICF implemented the following changes to improve response rates for the cell phone sample. More details on the changes to calling protocol can be found in section 4.4 Fielding Protocol.

- Employing refusal conversion (See section *4.4.1.8 Refusal Protocol*);
- Adding three additional calling attempts on records where a previous contact was made;
- Focusing calls during the most productive times (See section *4.4 Fielding Protocol*); and
- Utilizing only the best-producing interviewers on the cell phone study, and enhanced monitoring and coaching for these interviewers.

7. DATA PROCESSING

Data processing is comprised of three functions: converting the raw data into a user-friendly SAS data file, finalizing each record's disposition, and performing a quality review of the data. This section explains how each function is accomplished.

The first step in data processing was to convert the raw data into a second, user-friendly SAS data file. Spelling or typographical errors in "other-specify" responses were corrected, and recoded if necessary. Next, incomplete interviews were identified and final dispositions were assigned to all records.

After converting and cleaning the data, frequency tabulations of every question and variable are produced to detect missing data or errors in skip patterns. A variety of other checks were performed in SAS programs. For each question, any remaining responses outside of the expected range were flagged and the program re-assigned response values according to specified requirements.

Cumulative datasets were delivered monthly throughout data collection. At the end of the 12-month fielding period, two separate files were created. The master file contained all variables and all records, and the analytic dataset only contained completed and partially completed records. The analytic dataset excluded non-essential variables, such as responses to verification questions and variables provided with the sample. A codebook of the analytic file can be found in Appendix D. Both files contained calculated variables, and matched the 2012-2013 dataset where possible..

Before each dataset was delivered, the data was checked by an automatic program that confirmed that the skip logic was correct for all records. ICF also reviewed the contents of the file and a frequency distribution of all survey questions and computed variables.

8. WEIGHTING PROCESS

The weighting for NATS served several important purposes:

- o Corrected for unequal probabilities of selection into the survey sample, including from the dual-frame sample;
- o Corrected for differential non-response among elements of the survey population;
- o Corrected for frame undercoverage due to households with no phone;
- o Corrected for differences in demographic characteristics of the sample versus the population; and
- o Reduced sampling variability.

The NATS weighting was a multi-stage process. For consistency with the 2012–2013 NATS survey, the same weighting steps were followed, with adaptations to reflect differences in the sampling methods. The steps were:

1. Calculate initial weights;
2. Adjust for unknown eligibility status and non-response;
3. Adjust for within household selection and multiple telephones;
4. Rake to known population totals; and
5. Trim weights.

8.1 CALCULATE INITIAL WEIGHTS

The first stage in weighting involved creating sampling weights that correct for disproportionate probabilities of selection, called initial weights. The initial weight is the inverse of the probability that the particular unit is drawn into the sample. The base weights are presented in Appendix D.

Landline—For each stratum, the selection probability is the number of phone number selected (n) divided by the number of phone numbers in the stratum (N).

$Pr_i = n_i/N_i$, where
n_i =total phone numbers selected from density stratum i
N_i = total phone numbers on the frame in density stratum i.

The initial weight for the jth sample member in stratum i is the inverse of the selection probability, $W1_{i,j} = 1/Pr_{i,} = N_i/n_i$.

There are 102 total strata based on 51 states (including DC) by two density strata, listed telephone numbers (high-densityi=1), and unlisted telephone numbers (low-densityj=2). Since the sample is draw monthly and the frame is update quarterly, we used the average frame value.

Cell phone—Cell phone was based on a two-phase sample:

1) Select a sample of phone numbers (n) from each state stratum (N); using CellWINS outcome, substratify the selected phone numbers as 1) active (high-density, i=1) or 2) non-active (low-density, i=2).[3]

2) Select a subsample (n^*) from each density stratum: take all phone numbers in the working stratum; take 1-in-3.6 subsample of phone numbers from the non-working stratum.

The two-phase probability of selection is

$Pr_i = n/N \times n_i^*/n_i$, where

n = total phone numbers selected (state sample size)
N = total phone numbers on frame
n_i = sampled telephone numbers in density stratum i
n_i^* = second phase sample size selected for density stratum i.

The initial weight for the jth sample member in stratum i is the inverse of the selection probability, $W_{i,j}^1 = 1/Pr_i = (N \times n_i/n)/n_i^*$, where $N \times n_i/n$ is the estimated number of cell phone numbers on the frame in each density stratum. There are 102 total strata based on 51 states (including DC) by two density strata. Since the sample is draw monthly and the frame is update quarterly, we used the average frame value.

8.2 ADJUST FOR UNKNOWN ELIGIBILITY STATUS AND NON-RESPONSE

The non-response adjustment for landline and cell was a two-step process. First, there was an adjustment for unknown eligibility status and then a second adjustment for weights for survey non-response.

8.2.1 ADJUST FOR UNKNOWN ELIGIBILITY STATUS

The outcome (disposition) of a telephone number falls into one of three categories: eligible (n_i^e), ineligible (n_i^x), and unknown eligibility (n_i^u). Unknown eligibility is a form of non-response, occurring when no contact is made with a telephone number, but it appears to be a working number (e.g. answering machine, ring no answer) or contact is made, but the survey does not progress far enough to determine that eligibility for the survey (e.g. refusal during screening.) As was done in NATS 2012−2013, the sampling weights were adjusted for the unknown phone numbers based on the observed eligibility rates, $W1_{i,j} = U_i \times 1/Pr_i$, where $U_i = n_i^e/(n_i^e + n_i^x)$.

8.2.2 ADJUST WEIGHTS FOR SURVEY NON-RESPONSE

The steps for calculating the non-response adjustment differed for cell and landline. The landline adjustment used auxiliary data available for geographies associated with the landline telephone number to develop a response propensity model. However, geographic auxiliary information was not available for the cell phone sample. Therefore, a simple ratio adjustment was used to account for non-response.

Landline—The non-response adjustment for landline included four steps:

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[3] The stratification in to active and non-active cell phone numbers is based on Marketing Systems Group's Cell-WINS (Cellular Working Identification Number Service) -- a real-time, non-intrusive screening process that accurately identifies inactive telephone numbers within a Cellular RDD sample.

1. Append auxiliary data to frame;
2. Fit a logistic regression model to estimate the response propensity based on the auxiliary data;
3. Adjust the weights for non-response by dividing by the response propensity; and
4. Ratio-adjust the weights so they sum to the sampling weights.

8.2.2.1 STEP 1. APPEND AUXILIARY DATA TO FRAME

The auxiliary data was based on environmental characteristics similar to those used in NATS 2012–2013. The characteristics were computed from the 2008-2012 5-year American Community Survey Summary Files. The characteristics were based on census block group for high-density stratum (listed); and on county for the low-density stratum (unlisted). Listed numbers that could not be geocoded to a census block group were included with the unlisted numbers for the modeling.

- Population count,
- Household count,
- Proportion black or African American,
- Proportion Hispanic,
- Proportion rural,
- Median age,
- Adults per household,
- Children per household,
- Proportion of occupied households,
- Proportion of occupied households with a mortgage,
- Proportion of population with less than a high school degree,
- Proportion of population with a college degree or higher,
- Proportion of the population that lived in the same house one year ago,[4]
- Proportion never married, and
- Proportion now married.

8.2.2.2 STEP 2. FIT LOGISTIC REGRESSION MODEL

Using the auxiliary data from step 1, the probability of response based on a logistic regression model was estimated:

$$\Pr(r_j|X_j) = \frac{1}{1 + e^{-\beta X_j}}$$

where r_j indicates response (1 = yes, 0=no) and X_j is a series of independent variables for individual j. Backwards selection was used—removing one variable at a time until all variables have a p-value of 0.05 or less. A separate model was utilized for the 102 combinations of state and density stratum.

8.2.2.3 STEP 3. ADJUST WEIGHTS FOR NON-RESPONSE

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[4] The proportion of the population that lived in the same house one year ago was not available down to the block group level. Therefore we substituted the tract level percentage for the high density stratum model.

The non-response adjusted weights were calculated as the initial weight divided by the modeled response propensities, $W2_{i,j} = W1_{i,j}/\hat{p}_{i,j}$, where $\hat{p}_{i,j}$ is the estimated response propensity for individual j. The non-response adjustment was applied to the respondents.

Finally, the non-response adjusted weights were adjusted so that the sum equals the unknown eligibility adjusted weights for respondents, non-respondents, and unknowns, $W3_{i,j} = W2_{i,j} \times \sum W1_{i,j}/\sum W2_{i,j}$.

Cell Phone—The modeling as described above was not feasible for cell phone since county is not known for the cell phone sample. Therefore, for each area code, the respondents (r) were weighted to represent the estimated eligible sample. The estimated eligible sample included confirmed eligible (e; respondents and non-respondents) and the unresolved adjusted for eligibility (u):

$$W3_{i,j} = W1_{i,j} \times \sum_{e,u} W1_{i,j}/\sum_r W1_{i,j}.$$

8.3   ADJUST FOR WITHIN-HOUSEHOLD SELECTION AND MULTIPLE TELEPHONES

The landline sample used a two-stage selection process. First, the household was selected with probability proportional to the number of landline telephones in the household. Second, one respondent was randomly selected from all eligible household members. Therefore, the weights were adjusted to account for multiple telephones and the within-household selection:

$$W4_{i,j} = W3_{i,j} \times a_{i,j}/l_{i,j},$$

where $a_{i,j}$ is the number of adults and $l_{i,j}$ is the number of landlines in the jth respondent household. In cases where a household reported more than three telephone lines, the adjustment factor was set to three (i.e., it is truncated to limit the potential variance-inflating effects of extreme weights).

The cell sample used a one-stage selection process since cell phones are generally considered a personal device. This was reflected in the sampling methodology where the person who answered the cell phone was sampled. Thus, a respondent was not randomly selected nor adjusted for multiple household phones. Therefore $W4_{i,j} = W3_{i,j}$.

8.4 WEIGHT TRIMMING

Prior to evaluating the weights for weight trimming, we ratio adjusted the weights to match the national percentage of adults living in cell-only and landline households. To calculate this percentage, we used modeled state estimates from the 2013 National Health Interview Survey[5] and the 2013 adult population living in households for each state from the 2013 1-year Public Use Microdata Sample (PUMS) files.[6]

	Before dual-frame adjusmtent	After dual-frame adjustment
Cell phone only	60.1%	39.6%
Landline	39.9%	60.4%

We evaluated each state for weight trimming in two steps:

1) First we evaluated weights for respondents whose reported state (Q96) was different from the state in which they were sampled. We trimmed weights exceeding 1.5 times the maximum weight for the sample state. This resulted in 86 trimmed weights across nine states.
2) If the unequal weighting effect (UWE) (see below) still exceeded 2.0, we trimmed weights exceeded Q3+3*IQR, where Q3 is the third quartile and IQR is the interquartile range, IQR = Q3-Q1. This resulted in 36 weights trimmed in DC.

The weight trimming is summarized in Appendix E.

8.4.1 UNEQUAL WEIGHTING EFFECT

The UWE is an upper bound of the ratio of the variance of an estimate calculated from a survey to the variance one would obtain from a simple random sample with the same sample size. The concept of UWE is described by Biemer and Christ in the International Handbook of Survey Methodology (2008):[7]

"Kish (1965, p.427) derived a formula for determining the maximum increase in variance of an estimate of a population mean due to a weight variation.[8] His formula assumes there is no correlation between the survey weights and the characteristic whose mean is to be estimated. This may be a good approximation for many survey variables because the survey design and weight adjustments are optimized for only a few key characteristics out of hundreds that may be collected in a survey. The actual variance increase will vary across characteristics in the survey and will be smaller for characteristics where the covariance between the observations and the weights are larger. Under these assumptions, Kish obtained the following expression for the UWE defined as the ratio of the variances of the weighted mean to the variance of the unweighted mean:

$$UWE = 1 + cv^2$$

[5] http://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless_state_201412.pdf
[6] http://www.census.gov/acs/www/data_documentation/public_use_microdata_sample/
[7] Beimer, P. P., and Christ, S. L. (2008). Weighting Survey Data. In E.D. de Leeuw, J. J. Hox, and D. A. Dillman (Eds.), International Handbook of Survey Methodology (317-341). New York: Psychology Press, Taylor&Francis.
[8] Kish, L. (1965). Survey Sampling. New York: Wiley-Interscience Publication.

"Where *cv* is the coefficient of variance of the weights or the sample standard deviation of the weights divided by the sample average weight."

The UWE does not take into account the effect of the stratification on the estimates. Stratification usually reduces variance. Appendix E contains the UWE before and after trimming for each state.

8.5 RAKE TO KNOWN POPULATION TOTALS

The raking ensured that the survey sample matched the population in each state by demographics such as age, gender, education, marital status, and race. In most telephone surveys, different population sub-groups responded at different rates. For example, females are more likely to respond than males resulting in a distribution of 43% male and 57% female. The Raking will adjust the weights to match the population distribution of 48% male and 52% female. Raking iteratively adjusts the sample to match the population along a number of demographic and socioeconomic dimensions. To the extent that the raking dimensions were correlated with the survey data, these weighting adjustments mitigated bias due to survey non-response and frame coverage.

The raking was conducted for each state with these dimensions:

- Age (18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+ years) by gender;
- Race (Hispanic, non-Hispanic white, non-Hispanic black or African American, non-Hispanic other/multi);
- Marital status (married, never married, widowed/divorced/separated) by gender;
- Educational attainment (less than high school, high school graduate, some college/technical school, college graduate, post graduate degree) by gender;
- Phone category (landline, cell-only); and
- House type (single, detached or other; single, attached; multi, 2 unit; multi, 3-9; multi,10-49; multi, 50+, mobile home, boat, RV, or van.)

The population controls were computed from the 2013 1-year American Community Survey's Public Use Microdata Sample (PUMS) files.[9] Group quarters records were removed from the PUMS files so the file represents the adult household population in each state. The population for phone status was calculated by multiplying the total adult population in each state by the adult phone usage percentages based on modeled state estimates from the 2013 National Health Interview Survey.[10] The phone usage percentages were adjusted to 100% after excluding the "no telephone service" category. The population controls are presented in Appendix E, Tables E-2 through E-8.

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[9] http://www.census.gov/acs/www/data_documentation/public_use_microdata_sample/
[10] http://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless_state_201412.pdf

8.5.1 COLLAPSING RULES

The categories for the raking were collapsed if the sample size for any given cell was small. We collapsed for housing type, age group by gender, and race/ethnicity. The cell sizes for the remaining dimensions did not require collapsing.

For age group by gender, we collapsed a cell if the sample size was less than 50 or the percentage was less than 2.5%. The collapsing rule was as follows:

1) 18-24: Collapse with 25-34
2) 25-34: Collapse with 35-44
3) 35-44: Collapse with 45-54
4) 45-54: Collapse priority 1) 35-44 2) 55-64
5) 55-64: Collapse with 45-54
6) 65-74: Collapse with 75+
7) 75+: Collapse with 65-74

For race, we collapsed a cell if the sample size was less than 50 or the percentage was less than 2.5%. The collapsing rule was as follows:

1) Hispanic: Collapse with Non-Hispanic other
2) Non-Hispanic black: Collapse with Non-Hispanic other
3) Non-Hispanic other: Collapse with Non-Hispanic white

For housing type, we collapsed a cell if the sample size was less than 80 or the percentage was less than 3%. The collapsing rule was as follows:

1) Single unit, attached: Collapse with Single unit, detached or other
2) Multi, 2 units: Collapse with Multi, 3-9 units
3) Multi, 3-9 units: Collapse priority 1) Multi, 2 units 2) Multi, 10-49
4) Multi, 10-49 units: Collapse with Multi, 10-49 units
5) Multi, 50+ units: Collapse priority 1) Multi, 10-49 units 2) Multi, 3-9 units 3) Multi, 2 units
6) Mobile home, boat, RV, or van: Collapse with Single unit, detached or other
7) Collapse any remaining small cells Single unit, detached or other

For Washington DC, we collapsed Single unit, detached or other and Single unit, attached even though the minimum threshold was met in both cells. The reason is that the responses to the question did not seem to coincide with the Census Bureau definition. The weighted percentages for this state prior to raking were 26% and 18% for detached and attached, respectively. The population percentages are 14% and 32% for detached and attached, respectively. This weighting adjustment was resulting in high weight differential and therefore we collapsed the two cells.

8.5.2 IMPUTATION FOR RAKING VARIABLES

Missing values for the weighting variables were imputed based on the following strategy. All imputation was done separately by state. Age was imputed as the mean value for each gender and race category (if the race was missing, age was imputed as the mean value for each gender). Race was imputed as the modal value within county of residence. Marital status, educational attainment, and building type were imputed based on a nearest neighbor hot-deck algorithm. For respondents who were missing more than

one item (e.g. marital status and educational attainment), the algorithm imputed each missing item from the nearest neighbor with nonmissing responses to each item needed. Race, age, and gender were used to determine nearest neighbors.

8.5.3   WEIGHT TRIMMING DURING THE RAKING

We used Izrael et al's rake and trim algorithm[11] to rake the data to the population controls, yet maintain the UWE below 2.0. Weights were trimmed using the global high cap value (GHCV) method. This method reduced large weights and increases small weights when they exceeded the global lower or upper bounds (based on factors of the average weight). Delaware, Washington, DC, North Dakota, and Rhode Island were the only states to require trimming at this stage. The weights were also constrained from increasing more than five times the input weight (before raking); and from decreasing to less than 0.2 times its input weight.

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[11] Izrael, D, Battaglia, MP, Frankel, MR. 2009. Extreme Survey Weight Adjustment as a Component of Sample Balancing (a.k.a. Raking). SAS Global Forum.

APPENDIX A: NATS DISPOSITIONS AND CALLING RULES

2013-2014 NATS Disposition Codes for Landline and Cell Phones				
Description	**AAPOR Code**	**Definition**	**# of attempts**	**Call back rules**
Completed interviews				
Complete	1.1	Assign if respondent completes questionnaire.	1-15 attempts	
Partial Complete	1.2	**LANDLINE** Definition: Four or more questions from among gender, age, multiple race (racemulti), Hispanic origin (hispanic), marital status (marital2), education (educa2), employment (employ2) and "Do you have more than one landline telephone number in your household?" (telnosgt1) have been answered with a response other than Don't know/Not sure or Refused. **CELL** Definition: Three or more questions from among gender, age, multiple race (racemulti), Hispanic origin (hispanic), marital status (marital2), education (educa2), employment (employ2) have been answered with a response other than Don't know/Not sure or Refused. Calling rules: Make a second attempt to fully complete the interview after first refusal or termination.	1-15 attempts	Respondent may be called back to fully complete the interview. Give final disposition on 15th or subsequent call attempt even if there is only one occurrence of a refusal or termination.

Non completed, known eligible				
Description	**AAPOR Code**	**Definition**	**# of attempts**	**Call back rules**
Break off/ termination within questionnaire	2.1	Assign if respondent has completed Q1 GENHEALTH with response other than "Don't know" or "refused' and terminates/breaks off prior to demographics section. See definition of partial.	1-15 attempts	May be assigned after one attempt if hard refusal or special circumstance. Assign after maximum number of attempts with at least one interim disposition of (break off/termination).
Household level refusal (landline only)	2.111	Assign for landline only if refusal after respondent selection but before Q1 GENHEALTH in landline. <u>Refusal can be from any member of the household</u>. Automated messages should not count as refusals.	1-15 attempts	May be assigned after one attempt if hard refusal or special circumstance. Assign after maximum number of attempts and at least one interim disposition of (household level refusal).
On never call list	2.111	Assign only if supervisor can determine that respondent is on never call list. Interviewer should not assign based on respondent information. (NOTE: If respondent insists that he/she is on never call list code assign household level refusal (2.111) or respondent refusal (2.112).	No attempt	Assign with confirmation by supervisor.
Known respondent refusal	2.112	Assign if <u>refusal by selected respondent</u> before Q1 GENHEALTH in landline. Automated messages should not count as refusals. Assign if cell phone respondent refuses after number determined to be personal phone (C2) and respondent confirms living in private residence (C4).	1-15 attempts	May be assigned after one attempt if hard refusal or special circumstance. Assign after maximum number of attempts and at least one interim disposition of (respondent refusal).

Description	AAPOR Code	Definition	# of attempts	Call back rules
Respondent never available	2.21	Assign if respondent selected /known eligible, but never available. Respondent may not have been contacted or contacted and asked to be called later. Includes repeated unsafe location for interview, respondent away during period of interview, respondent not available for appointment. Includes selected respondents who die during interview period.	1-15 attempts	Give final disposition when notified or after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline. Cell phone respondents may be called up to 8 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of calling attempts with at least one interim disposition of (appointment), or (unsafe location) and all others noncontact dispositions.
Respondent physically or mentally unable to complete interview	2.32	Assign if respondent selected but unable to complete interview due to physical or mental impairment. This includes temporary conditions such as bereavement, which will last beyond the interview period.	1-6 attempts	Assign the first time a selected respondent is contacted or is described by someone else as physically or mentally incapable of completing survey or the second time a respondent who is physically or mentally impaired is contacted.
Language barrier, selected respondent	2.33	Selected respondent does not speak English or other language for which interviewers are available. (NOTE: If language barriers prevent completion of respondent selection, assign code 3.2 (language barrier, physical or mental impairment).	1-6 attempts	Assign the first time a selected respondent is contacted or is described by someone else as not speaking English or other language for which interviewers are available.
Non completed, unknown eligible				
Description	**AAPOR Code**	**Definition**	**# of attempts**	**Call back rules**
Unknown if housing unit	3.1	Assign if hang up without confirming private residence (L2/C4) (landline and cell phone). Assign for landline sample if contact without completion of private household/college housing screener questions.	1-15 attempts	Give final disposition after second hang-up or termination or when a first time hang up will not be called back because of hard refusal or special circumstances. If the first occurrence is on 15th attempt, give final disposition. Assign after maximum number of attempts with at least one interim disposition of 5050 (hang up, unknown if housing unit) and all others noncontact.

No answer	3.13	Assign if phone rings normally but no one answers.	6-15 attempts	Give final disposition after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline. Cell phone respondents may be called up to 8 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with half or more interim dispositions of 5130 (no answer).
Answering device, unknown if residence or respondent eligible	3.14	Assign if answering device without confirmation of household (landline). Assign if cell phone reaches answering device. *note: all answering machine messages were coded as unknown unless the interviewer could confirm that it was ineligible. CDC disposition code "2.22-Answering device known residence" was not used because one cannot easily determine from a voicemail whether it is a residence or mixed-use phone.	10-15 attempts for landline; up to 8 attempts for cell phone	Give final disposition after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline. Cell phone respondents may be called up to 8 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with half or more interim dispositions of (answering device, unknown if eligible residence or respondent).
Telecommunication barrier	3.15	Assign if call blocking, message asking caller for identification or other ID requirements which cannot be met or other barrier established by potential respondent or household. Message does not provide information on whether number has reached a household or household resident.	1-6 attempts	Give final disposition after up to 3 calling occasions of no more than 2 attempts with at least 2 weekday, 2 weeknight and 2 weekend calls for landline. Cell phone respondents may be called up to 6 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with at least one interim disposition of (telecommunication barrier) and all others noncontact.

Household, not known if respondent eligible	3.2	Assign for landline sample if private residence confirmed without selecting respondent. (NOTE: If contact is made and <u>household eligibility is unknown,</u> use code 3100). Assign for cell phone if contact is made with household resident without determining whether cell phone number and respondent are eligible. Contact with group home may apply. Contact with vacation home may apply. Contact with household where residents are away for interview period may apply.	1-15 attempts	Give final disposition after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline. Cell phone respondents may be called up to 8 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with at least one interim disposition of (respondent refusal, hang up or termination).
Physical or mental impairment (household level)	3.2	Assign if physical or mental impairment prevents determination of private residence or prevents determination of eligibility of household or resident. This is a household level assignment. If selected respondent is physically or mentally impaired assign 2.32 after first attempt.	1-6 attempts	Assign after maximum number of attempts with at least one interim disposition of (physical or mental impairment).
Language barrier, (household level)	3.2	Assign if language barrier prevents determination of private residence or prevents determination of eligibility of household or resident. This is a household level assignment. If selected respondent has language barrier assign 2.33 when informed.	1-6 attempts	Assign after maximum number of attempts with at least one interim disposition of (language barrier).

Inleligible				
Description	**AAPOR Code**	**Definition**	**# of attempts**	**Call back rules**
Fax/data/modem	4.2	Assign if call reaches fax or data line without human contact.	1-6 attempts	<u>May be assigned after one attempt.</u> If states choose to use six attempts, give final disposition after recommendation for 3 calling occasions with 2 weekday, 2 weeknight and 2 weekend calls for landline. If states choose to use six attempts, cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight and 2 weekend attempts. If six attempts are used, assign after maximum number of attempts with at least one interim disposition of (fax/data/modem) and all others noncontact.
Out of sample	4.3	Assign if out of country. Assign if indication that number reaches vacation home or household members are not living in home during interview period. (NOTE: If contact is made with respondent who indicates that they have been reached at their vacation home where they live for at least 30 days per year, interview can continue).	1-15 attempts	Assigned as soon as sample ineligibility determined. This should take priority over other final dispositions.
Nonworking number/ disconnected	4.3	Assign if tritone. Assign if operator message of nonworking number. Assign if operator message of nonworking number. States may choose to assign for temporary nonworking number message on first attempt or after repeated temporary nonworking number messages. Assign if "number changed" message. Assign if correctly dialed number rings to incorrect number. Assign if respondent reports that connection has been made to wrong number.	1-6 attempts. Do not call more than 6 attempts.	May be assigned after one attempt. If states use six attempts, give final disposition after recommendation for 3 calling occasions with 2 weekday, 2 weeknight and 2 weekend calls for landline. Cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with at least one interim disposition of (technological barrier), (possible nonworking) or (busy) and all others noncontact.

				May be assigned after one attempt or pre assigned using precall status. Assign as soon as interviewer reaches number resulting in tritone. If states use six attempts, give final disposition after recommendation for 3 calling occasions with 2 weekday, 2 weeknight and 2 weekend calls for landline. Cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with interim dispositions of (fax/data/modem), (technological barrier), (possible nonworking) and/or (busy) and all others noncontact.
Special technological circumstances/ Always busy	4.4	Assign if repeated busy, fast busy or circuit busy messages. Assign if repeated ambiguous operator messages. Assign if repeated poor audio quality. Assign if number repeatedly does not connect.	1-6 attempts. Do not call more than 6 attempts.	
Cell phone (landline only)	4.42	Assign if landline sample number connects to cell phone.	1-15 attempts.	Given final disposition when informed. This disposition should take priority over other possible final dispositions for the landline sample. This disposition code should be pre-assigned to precall status code which indicates cell phone in the landline sample.
Call forwarding/ pager	4.43	Assign if message indicates number has been forwarded. Assign if number reaches a pager. Assign if connection produces series of beeps. Assign if informed that number forwarded to other number. (NOTE: Do not select respondents from household or location which is different from the original number. Do not enumerate the number of adults at location which is different from original number.)	1-6 attempts. Do not call more than 6 attempts.	May be assigned after one attempt. May give final disposition after respondent or automated message informs that the number has been forwarded after multiple attempts. May give final disposition after series of beeps indicates a pager has been reached. If states use six attempts, give final disposition after recommendation for 3 calling occasions with 2 weekday, 2 weeknight and 2 weekend calls for landline. Cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight and 2 weekend attempts.
Cell phone respondent with landline	4.45	Assign if cell phone respondent also has landline (C3=2)	1-15 attempts.	Given final disposition when informed. This disposition should take priority over other possible final dispositions for the cell phone sample.
Landline (cell phone only)	4.46	Assign if cell phone sample number connects to landline.	1-15 attempts.	Given final disposition when informed. This disposition should take priority over other possible final dispositions for the cell phone sample.

Non residence	4.5	Assign if business, government or other organization.	1-15 attempts	Given final disposition when informed. This disposition should take priority over other possible final dispositions. This disposition should be assigned to numbers with a precall status of 5.
Group home	4.53	Assign if respondent identifies number as reaching a group home, prison, halfway house, nursing home or hospital. College dormitories, college housing, graduate student housing, sorority/fraternity housing, or other college provided housing is not defined as group home.	1-15 attempts	Given final disposition when informed. This disposition should take priority over other possible final dispositions.
Household, no eligible respondent	4.7	Assign if child phone (landline or cell phone). Assign if landline household without eligible respondent.	1-15 attempts	Given final disposition when informed. This disposition should take priority over other possible final dispositions.

APPENDIX B: ADVANCE LETTERS

DEPARTMENT OF HEALTH & HUMAN SERVICES   Public Health Service

Centers for Disease Control
and Prevention (CDC)
Atlanta GA 30341-3724

Dear Resident,

We are writing to ask for your help with an important study being conducted by the Centers for Disease Control and Prevention (CDC). We're gathering information from adults on health and tobacco; your phone number was chosen randomly from phone numbers across the U.S. ICF, a health research company, will call you. They will identify themselves as calling for the CDC. If the call comes at a busy time, please give the interviewer a better time to call you back.

The interview takes about 15-25 minutes and can be completed when ICF calls or at a later time. You can call, toll-free, 1-877-386-6789 if you have any questions or if you want to schedule a convenient time for you to complete the interview.

The CDC will use the data collected by this study to develop more effective public health programs.

Your participation is completely voluntary, and you may choose not to answer any question or to end the interview at any time. If you do not wish to participate, be assured there is no penalty or loss of benefit to which you may otherwise be entitled. If you do participate, your answers to survey questions will be kept private, to the extent permitted by law. No person or household will be identified in any reports from the study.

We hope you will take the time to help with this important research.

Thank you for your assistance. If you have any further questions, please call 1-877-386-6789.

Sincerely,

Tim McAfee, MD, MPH
Director, Office on Smoking and Health
National Center for Chronic Disease Prevention and Health Promotion

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Centers for Disease Control
and Prevention (CDC)
Atlanta GA 30341-3724

Estimado Residente:

Nos dirigimos a usted a fin de solicitarle su colaboración para un importante estudio que están realizando los Centros para el Control y la Prevención de Enfermedades (Centers for Disease Control and Prevention, CDC). Estamos en proceso de reunir información de adultos sobre la salud y el tabaco, y su número telefónico fue seleccionado al azar de entre números de todos los EE. UU. Una empresa de investigación sobre la salud, ICF, se pondrá en contacto con usted. Para identificarse, le dirán que lo llaman en nombre de los CDC. Si lo llaman en un momento inoportuno, indíquele al entrevistador un horario para que vuelva a llamarlo.

La entrevista lleva entre 15 y 25 minutos, y puede completarse cuando ICF lo llame o bien después. Usted puede llamar a la línea gratuita 1-877-386-6789 si tiene alguna pregunta o si desea coordinar un momento más conveniente para realizar la entrevista.

Los CDC utilizarán la información recabada en este estudio para desarrollar programas de salud pública más eficaces.

Su participación es de carácter totalmente voluntario. Además, usted puede optar por no responder a alguna de las preguntas o dar por finalizada la entrevista en cualquier momento. En caso de que no desee participar, tenga la seguridad de que no habrá sanciones ni pérdida de beneficios a los cuales pueda tener derecho de otro modo. Si participa, sus respuestas a las preguntas de la encuesta serán privadas, tal como lo permite la ley. En los informes de este estudio no se identificará a ninguna persona ni familia.

Esperamos que decida dedicar un tiempo para colaborar con esta importante investigación.

Agradecemos su colaboración. Si tiene alguna otra pregunta, llame al 1-877-386-6789.

Atentamente,

Tim McAfee, MD, MPH
Director, Office on Smoking and Health
National Center for Chronic Disease Prevention and Health Promotion

APPENDIX C: IVR SCRIPT

National Adult Tobacco Survey IVR Script

Greeting

Hello, you have reached the phone line for the National Adult Tobacco Survey, which is sponsored by the US Centers for Disease Control and Prevention, commonly known as the CDC. The National Adult Tobacco Survey is an important study about tobacco-related experiences and opinions of all adults 18 and older throughout the United States. If you would like to continue in English, please press '1'. *Si desea continuar en* **español** *marque el 3 ahora.*

Go to Spanish if '1' is not pressed.

Buenas. Ha llamado a la línea para la Encuesta Nacional de Adultos Sobre el Tabaco. El estudio está patrocinado por los Centros para el Control y la Prevención de Enfermedades de los Estados Unidos, conocido comúnmente como el CDC, por sus siglas en inglés. La Encuesta Nacional de Adultos Sobre el Tabaco es un estudio importante acerca de las experiencias y opiniones relacionadas con el tabaco en todos adultos mayores de 18 años a través de los Estados Unidos. Si desea continuar en español, marque el 3 ahora.

Go to Spanish if '1' is not pressed.

Menu

1) If you would like to learn more about the study, please **press '1'**

Si quisiera saber más sobre el estudio, marque el 1

2) If you would like to speak to a survey representative for more information, to take the survey now, to schedule a time to take the survey, or to decline the survey, please **press '2'**

Para hablar con un representante de la encuesta, obtener más información, tomar la encuesta, decirnos un mejor momento para hablarle, o para declinar la encuesta, por favor marque el 2

Option 1: More Information

1. The CDC has contracted with ICF Macro, a health research company, to conduct interviews for the National Adult Tobacco Survey. Phone numbers are randomly selected to be called. Participation in the survey is voluntary, and your answers will be maintained in a secure manner. The National Adult Tobacco Survey will interview over 75,000 people. If you would like to speak to a survey representative for more information, to take the survey now, to schedule a time to take the survey, or to decline the survey, please press '2'.

1. El CDC ha contratado a ICF Macro, una compañía que realiza estudios relacionados a la salud, para conducir entrevistas para la Encuesta Nacional de Adultos Sobre el Tabaco. Los números de teléfono son escogidos al azar para esta encuesta. Participación en esta encuesta es voluntaria, y sus respuestas se mantendrán de manera segura. La Encuesta nacional de adultos sobre el tabaco entrevistará más de 75,000 personas. Para hablar con un representante de la encuesta, obtener más información, tomar la encuesta, decirnos un mejor momento para hablarle, o para declinar la encuesta, por favor marque el 2.

Option 2: Transfer to Supervisor

2. Transfer call to a call room supervisor who will address concerns, attempt to convert the refusal (if necessary), and then remove the number from the study if still requested.

[If no representative is available, caller is routed to the following message on a dedicated Voicemail box:]

Option 3: Voicemail

3. You've reached the private voicemail for the National Adult Tobacco Survey. The survey center is closed or all survey representatives are busy at this time. If you would like to be contacted by a survey representative from ICF, please leave a brief message, including your name, your phone number, and when you would like to be called back. Your interest in this study is greatly appreciated. Thank you and we look forward to talking with you soon.

Ha llegado al buzón de voz privado para la Encuesta Nacional de Adultos Sobre el Tabaco. El centro de encuestas está cerrado, o todos los representantes están ocupados en este momento. Si desea ser contactado por un representante de la encuesta de ICF, por favor deje un breve mensaje incluyendo su nombre, número de teléfono y hora que desee que le regresemos su llamada. Su interés en este estudio es muy agradecido. Gracias y anticipamos hablar con usted muy pronto.

APPENDIX D: BASE WEIGHTS AND ELIGIBILITY ADJUSTMENTS

Table D-1. Base Weights and Eligibility Adjustments

a. Landline

STATE FIPS	HIGH DENSITY (LISTED)				LOW DENSITY (UNLISTED)			
	N_i	n_i	W1	W1 with unk adj	N	n_i	W1	W1 with unk adj
01	1315864	5204	252.86	90.48	3435020	9016	380.99	5.08
02	179378	3998	44.87	18.24	697672	10402	67.07	1.04
04	1272659	6599	192.86	69.64	4145341	14461	286.66	6.45
05	626156	4485	139.61	55.83	1958511	9315	210.25	2.45
06	7652055	38569	198.40	72.49	24463628	82391	296.92	7.05
08	1134868	4253	266.84	110.57	3879648	9727	398.85	8.02
09	1047539	4437	236.09	114.70	2480102	7053	351.64	8.73
10	280667	5240	53.56	22.02	601599.7	7480	80.43	1.85
11	142067	3949	35.98	14.29	770982.8	14231	54.18	0.93
12	4583661	19019	241.00	82.66	14665172	40651	360.76	6.52
13	2285743	8711	262.40	100.55	6963257	17659	394.32	5.33
15	229040	5723	40.02	15.08	1061352	17587	60.35	1.37
16	296908	3889	76.35	33.92	1094542	9581	114.24	1.69
17	2850903	11985	237.87	93.59	10125780	28365	356.98	4.91
18	1617237	4850	333.45	154.12	4552672	9130	498.65	5.44
19	811426	3723	217.95	105.83	2579599	7857	328.32	2.68
20	694039	4064	170.78	77.15	2118828	8296	255.40	2.84
21	1088572	4271	254.88	112.81	3066645	7969	384.82	5.98
22	1155261	5406	213.70	79.26	3618747	11274	320.98	2.75
23	459385	3750	122.50	52.77	1071440	5820	184.10	3.63
24	1535240	5134	299.03	125.65	4236069	9506	445.62	9.38
25	2008893	5982	335.82	165.69	4273915	8478	504.12	10.73
26	2544013	9571	265.80	104.69	8249945	20759	397.42	4.11
27	1472284	3518	418.50	206.09	4346816	6892	630.71	8.54
28	596932	4931	121.06	45.52	1993260	11029	180.73	2.05
29	1463330	4508	324.61	143.84	4090787	8392	487.46	7.43
30	242817	3306	73.45	35.56	878616.3	8004	109.77	2.11
31	444248	3906	113.74	57.81	1451818	8514	170.52	1.85
32	622860	5606	111.11	42.04	1611706	9664	166.77	3.11
33	425075	4179	101.72	45.86	951816.8	6291	151.30	3.29
34	2256081	8677	260.01	104.18	7320727	18803	389.34	10.83
35	402380	3857	104.32	45.50	1410204	9013	156.46	2.66
36	4788651	18000	266.04	122.44	14464941	36300	398.48	11.13
37	2439957	7530	324.03	143.49	6529101	13440	485.80	8.83
38	165510	3538	46.78	27.33	668040.3	9512	70.23	0.60
39	2706810	9371	288.85	136.65	9306606	21469	433.49	6.66

	HIGH DENSITY (LISTED)				LOW DENSITY (UNLISTED)			
STATE FIPS	N_i	n_i	W1	W1 with unk adj	N	n_i	W1	W1 with unk adj
40	936923	5183	180.77	68.17	2569986	9427	272.62	3.55
41	828833	3146	263.46	128.31	2978251	7504	396.89	10.71
42	3719097	10519	353.56	166.87	8668636	16331	530.81	12.19
44	324598	5191	62.53	36.39	631493.9	6809	92.74	6.00
45	1133106	4137	273.90	122.88	3219852	7863	409.49	7.76
46	201694	3754	53.73	26.26	834055.8	10316	80.85	0.47
47	1586212	5733	276.68	110.09	4522272	11007	410.85	6.10
48	5070684	27524	184.23	60.73	16466075	59626	276.16	2.91
49	475054	3587	132.44	57.19	1651063	8413	196.25	3.83
50	239056	3131	76.35	39.55	565502.5	4939	114.50	3.06
51	2059456	6160	334.33	163.05	5605252	11150	502.71	9.18
53	1536789	4812	319.37	143.01	4932220	10338	477.10	10.52
54	576300	4050	142.30	73.10	1021292	4770	214.11	5.06
55	1513134	4003	378.00	194.14	4217616	7427	567.88	5.94
56	115231	3683	31.29	14.60	438486.1	9397	46.66	0.68

b. Cell Phone Base Weights

	HIGH DENSITY (ACTIVE)				LOW DENSITY (INACTIVE)			
STATE FIPS	$N \times n_i/n$	n_i^*	W1	W1 with unk adj	$N \times n_i/n$	n_i^*	W1	W1 with unk adj
01	3925879	6202	633.00	214.79	3846819	1688	2278.92	25.53
02	749163	5562	134.69	21.91	764504	1548	493.87	8.72
04	5066035	7460	679.09	260.78	2915296	1180	2470.59	49.35
05	2283839	4547	502.27	193.09	2255244	1213	1859.23	16.95
06	31710027	54897	577.63	181.13	16248019	7713	2106.58	40.44
08	4332385	5359	808.43	285.08	2317541	791	2929.89	55.05
09	3040255	9456	321.52	93.18	1366916	1164	1174.33	24.68
10	816964	7812	104.58	27.73	424816	1158	366.85	7.77
11	1092768	6845	159.64	42.78	820565	1435	571.82	15.41
12	16614778	25825	643.36	214.90	9327841	3995	2334.88	33.55
13	8489279	9807	865.63	313.15	5922856	1893	3128.82	49.63
15	1214591	6961	174.49	59.76	533019	839	635.30	12.26
16	1252198	3806	329.01	140.30	588029	484	1214.94	32.54
17	11090347	16102	688.76	240.54	8258018	3308	2496.38	24.48
18	5216265	6795	767.66	266.69	3124735	1125	2777.54	57.30
19	2465614	4936	499.52	186.74	1713838	944	1815.51	35.25
20	2270290	4319	525.65	214.38	2352710	1231	1911.22	6.50
21	3551581	5426	654.55	212.99	2412485	1024	2355.94	50.06

	HIGH DENSITY (ACTIVE)				LOW DENSITY (INACTIVE)			
STATE FIPS	$N \times n_i/n$	n_i^*	W1	W1 with unk adj	$N \times n_i/n$	n_i^*	W1	W1 with unk adj
22	4141944	6288	658.71	214.90	3967334	1662	2387.08	21.88
23	1081318	5985	180.67	62.58	633172	945	670.02	12.46
24	5105320	7478	682.71	229.93	3325597	1342	2478.09	53.33
25	5949176	11435	520.26	148.27	3958717	2095	1889.60	38.83
26	9134308	12654	721.85	233.53	7360399	2796	2632.47	50.45
27	4405926	6140	717.58	244.16	2751157	1060	2595.43	45.84
28	2235916	4676	478.17	178.90	2019584	1174	1720.26	25.01
29	4857130	6165	787.86	300.67	3201517	1125	2845.79	41.95
30	798560	3968	201.25	79.10	863370	1192	724.30	9.74
31	1521145	5229	290.91	104.63	1185355	1131	1048.06	8.28
32	2300232	6560	350.65	120.66	1176518	910	1292.88	29.81
33	1120796	6411	174.82	57.41	651570	1029	633.21	11.59
34	7879910	17289	455.78	126.59	4572380	2751	1662.08	26.89
35	1672435	4920	339.93	120.64	1079315	870	1240.59	37.92
36	18238119	32668	558.29	173.35	9898750	4892	2023.46	30.88
37	7766384	11085	700.62	236.62	5058316	1995	2535.50	34.66
38	616646	5408	114.02	35.94	683858	1672	409.01	1.76
39	10688377	15964	669.53	208.76	6918348	2876	2405.55	38.67
40	3119333	4919	634.14	246.61	3204207	1381	2320.21	31.67
41	3187658	4704	677.65	261.52	1282840	516	2486.12	88.50
42	10622477	18378	578.00	177.26	6144141	2922	2102.72	25.67
44	912754	10771	84.74	22.34	465610	1529	304.52	5.33
45	3831775	6004	638.20	216.41	2426648	1046	2319.93	33.82
46	634255	4470	141.89	54.10	554079	1080	513.04	4.16
47	5700480	6824	835.36	289.81	3674531	1216	3021.82	46.29
48	21919011	30026	730.00	253.35	13955925	5284	2641.17	40.26
49	2265295	4089	554.00	204.97	1363789	681	2002.63	44.28
50	513051	6231	82.34	20.05	233815	789	296.34	7.73
51	6986710	9720	718.80	229.35	4131394	1590	2598.36	61.80
53	5698200	6551	869.82	312.12	2408300	769	3131.73	68.41
54	1422724	7536	188.79	54.74	863872	1254	688.89	4.92
55	4534988	6094	744.17	269.09	3114587	1166	2671.17	28.48
56	501192	4469	112.15	36.56	940740	2341	401.85	1.14

APPENDIX E: WEIGHT TRIMMING AND UNEQUAL WEIGHTING EFFECT

Table E-1. Summary of Weight trimming and the UWE before and after trimming.

REPORTED STATE (Q99)	TRIMMING STEP 1				TRIMMING STEP 2				
	UWE before trimming	1.5*Max weight (sample state)	Weights trimmed	UWE	Q3	IQR	Q3+3IQR	Weights trimmed	UWE
01	1.2364	26312.6		1.2364	4588.2	2644.8	12522.6		1.2364
02	2.0309	2265.8	17	1.3957	557.4	145.5	993.9		1.3957
04	1.3137	30099.7		1.3137	4742.0	3014.9	13786.6		1.3137
05	1.3297	16805.0		1.3297	2933.0	1913.1	8672.2		1.3297
06	1.2747	32579.3		1.2747	4531.5	2587.2	12293.1		1.2747
08	1.2444	28367.6		1.2444	4740.2	2588.5	12505.5		1.2444
09	1.1868	19688.7		1.1868	4048.8	2024.4	10122.0		1.1868
10	1.8622	4043.8	9	1.3378	843.6	298.8	1739.9		1.3378
11	3.2568	5710.4	8	3.1319	778.9	536.5	2388.5	36	1.8443
12	1.3069	35932.9		1.3069	4899.4	2941.0	13722.4		1.3069
13	1.2578	31908.6		1.2578	5150.0	3060.2	14330.6		1.2578
15	1.6575	7675.2		1.6575	1405.3	950.1	4255.8		1.6575
16	1.4590	10870.4		1.4590	1962.5	1404.8	6176.7		1.4590
17	1.2694	35770.0		1.2694	4609.2	2612.7	12447.1		1.2694
18	1.1972	28289.4		1.1972	5079.1	2471.1	12492.4		1.1972
19	1.1792	19095.5		1.1792	3307.2	1938.8	9123.6		1.1792
20	1.2432	18484.8		1.2432	3176.1	1934.4	8979.3		1.2432
21	1.2382	22067.4		1.2382	3827.4	2029.5	9916.0		1.2382
22	1.2630	28173.2		1.2630	4262.4	2543.6	11893.2		1.2630
23	1.1722	7074.2		1.1722	1430.2	588.3	3195.0		1.1722
24	1.2118	31255.3		1.2118	5464.7	3034.6	14568.6		1.2118
25	1.1901	27339.4		1.1901	5651.5	2346.2	12690.2		1.1901
26	1.2895	34408.3		1.2895	5293.7	3159.3	14771.5		1.2895
27	1.1826	28559.1		1.1826	5402.4	2557.9	13076.1		1.1826
28	1.4764	19057.2		1.4764	2837.1	2024.3	8910.0		1.4764
29	1.1952	35493.4		1.1952	5283.6	3116.1	14631.9		1.1952
30	1.3974	5897.8	3	1.3706	1092.5	598.0	2886.4		1.3706
31	1.1859	10268.6		1.1859	1900.1	1023.0	4969.0		1.1859
32	1.3317	15578.5		1.3317	2703.7	1640.1	7624.0		1.3317
33	1.2039	7026.6		1.2039	1408.1	600.7	3210.3		1.2039
34	1.1907	42490.9		1.1907	4959.8	2428.7	12245.8		1.1907
35	1.4417	12357.0		1.4417	1826.8	1062.2	5013.5		1.4417
36	1.2374	41000.4		1.2374	5503.4	3005.1	14518.5		1.2374
37	1.1811	32721.2		1.1811	4948.9	2192.7	11527.1		1.1811
38	1.9806	3594.5	19	1.5680	689.5	319.6	1648.2		1.5680
39	1.2087	32810.1		1.2087	5030.6	2742.6	13258.5		1.2087
40	1.3144	24600.7		1.3144	3979.1	2614.2	11821.8		1.3144

41	1.2203	24337.4		1.2203	4095.6	2091.4	10369.8	1.2203
42	1.1581	26681.2		1.1581	5452.0	2409.5	12680.5	1.1581
44	1.4248	7197.1	1	1.4032	1381.1	567.5	3083.7	1.4032
45	1.1721	21382.1		1.1721	4578.6	2466.7	11978.8	1.1721
46	1.5717	4535.9	6	1.5019	836.3	444.3	2169.3	1.5019
47	1.2500	34972.6		1.2500	5374.5	3332.3	15371.4	1.2500
48	1.3743	37483.4		1.3743	4661.7	3073.6	13882.4	1.3743
49	1.3274	16850.7		1.3274	3044.2	1705.8	8161.7	1.3274
50	1.7275	3956.3	12	1.5160	910.8	479.9	2350.6	1.5160
51	1.1812	29846.7		1.1812	5166.8	2454.4	12530.0	1.1812
53	1.2065	30351.6		1.2065	4948.9	2430.8	12241.3	1.2065
54	1.2258	7797.9		1.2258	1996.9	791.5	4371.4	1.2258
55	1.1561	30080.1		1.1561	5586.8	2730.9	13779.4	1.1561
56	2.2750	3037.9	11	1.6170	565.2	345.1	1600.4	1.6170

Table E-2. Population Totals—State by Gender by Age Category (Male)

STATE		TOTAL	18-24	25-34	35-44	45-54	55-64	65-74	75+
01	Alabama	1709642	518071		282840	313310	293267	302154	
02	Alaska	265787	96598		91040		46293	31856	
04	Arizona	2367627	745065		397889	399248	364229	273428	187768
05	Arkansas	1045252	315378		360994		173658	119204	76018
06	California	13859138	1917091	2751721	2526166	2527036	2077923	1236949	822252
08	Colorado	1936942	628553		362774	344892	316226	179613	104884
09	Connecticut	1290489	360794		478298		226222	133304	91871
10	Delaware	329925	95861		53312	61622	55681	63449	
11	DC	229308	91260		42343	37374	30467	27864	
12	Florida	7214035	837797	1179161	1146165	1290054	1158289	913849	688720
13	Georgia	3438664	458204	630070	659787	648209	535711	334018	172665
15	Hawaii	524444	166888		90720	85734	85320	95782	
16	Idaho	569554	176051		195557		95108	102838	
17	Illinois	4609936	584249	857391	831708	856929	753287	437416	288956
18	Indiana	2316044	695605		403271	435095	397530	236498	148045
19	Iowa	1108183	327724		178088	204011	197442	116591	84327
20	Kansas	1026856	329943		352362		173546	100105	70900
21	Kentucky	1574310	463622		270893	295864	272877	271054	
22	Louisiana	1607755	525612		262651	289930	273821	255741	
23	Maine	499438	121273		76491	100067	97973	63702	39932
24	Maryland	2108354	641994		366899	418623	349128	331710	
25	Massachusetts	2409585	714749		402613	476613	407459	243271	164880
26	Michigan	3574659	462018	574114	580654	680576	640298	389100	247899
27	Minnesota	1962045	595643		325241	379561	336248	193542	131810

28	Mississippi	1017473	313549		356896		174365	108347	64316
29	Missouri	2147392	643879		352295	401571	365034	384613	
30	Montana	377276	106156		121343		73955	75822	
31	Nebraska	664229	209965		229493		112122	112649	
32	Nevada	1040056	322749		188856	190978	161776	112840	62857
33	New Hamp.	494768	125612		80439	104666	95796	88255	
34	New Jersey	3203565	376524	550909	573333	643160	530150	315825	213664
35	New Mexico	748518	235744			248487	125475	85699	53113
36	New York	7059752	878725	1348013	1209335	1331246	1147774	681812	462847
37	North Carolina	3474740	450212	594442	631735	639902	562353	380482	215614
38	North Dakota	272362	95469		87327		45567	43999	
39	Ohio	4133210	495701	692387	683354	790683	739562	441355	290168
40	Oklahoma	1348688	428127		235163	231495	219137	144750	90016
41	Oregon	1455869	427512		257855	247898	255978	165506	101120
42	Pennsylvania	4619784	527860	766984	741976	884542	828077	508411	361934
44	Rhode Island	384532	115176		135469		67235	39905	26747
45	South Carolina	1683736	496316		590119		285859	202499	108943
46	South Dakota	300647	90144		51145	52612	52943	53803	
47	Tennessee	2319967	690429		406418	427101	390900	260577	144542
48	Texas	9150941	1291997	1836018	1728518	1655699	1359157	808060	471492
49	Utah	970919	373021		189758	150615	128780	77166	51579
50	Vermont	231536	58160		81757		45629	29108	16882
51	Virginia	2955778	358889	541336	540133	558813	481101	302705	172801
53	Washington	2586183	810644		456854	465657	430840	265857	156331
54	West Virginia	693184	182487		115535	123637	130675	140850	
55	Wisconsin	2098717	606362		348215	401205	376796	366139	
56	Wyoming	215014	67982		35203	36454	40058	22867	12450

Table E-3. Population Totals—State by Gender by Age Category (Female)

STATE		TOTAL	18-24	25-34	35-44	45-54	55-64	65-74	75+
01	Alabama	1900985	530207		316905	334685	321119	223817	174252
02	Alaska	254575	86530		43320	50478	40826	21518	11903
04	Arizona	2501082	725131		413973	416084	407155	308809	229930
05	Arkansas	1126549	315540		185763	194342	188737	137293	104874
06	California	14526435	1813746	2696913	2565848	2589362	2254722	1424015	1181829
08	Colorado	1976224	222693	370727	351312	355625	331830	196882	147155
09	Connecticut	1405321	352848		228263	284467	245950	154421	139372
10	Delaware	367480	98905		58596	68677	62699	45507	33096
11	DC	266401	105737		44620	37155	36627	22526	19736
12	Florida	7900074	820327	1193424	1211304	1388940	1322156	1049467	914456
13	Georgia	3809699	456325	673890	712926	702498	608736	388340	266984

STATE		TOTAL	18-24	25-34	35-44	45-54	55-64	65-74	75+
15	Hawaii	530853	150523		85225	88426	89141	62229	55309
16	Idaho	588274	175614		95831	101905	99216	66305	49403
17	Illinois	4958207	567941	883249	843415	904282	814680	509310	435330
18	Indiana	2485309	704174		414961	451179	423871	269787	221337
19	Iowa	1160801	322097		180207	205738	201001	128104	123654
20	Kansas	1071113	311808		360804		181719	113506	103276
21	Kentucky	1687816	458217		283023	311265	294817	193210	147284
22	Louisiana	1781585	547968		289745	313956	300512	184404	145000
23	Maine	534426	120210		80843	103898	105232	67697	56546
24	Maryland	2337440	652726		400522	456728	395001	243673	188790
25	Massachusetts	2653474	723296		431854	509765	448045	288819	251695
26	Michigan	3858057	1034979		613240	717677	694526	433945	363690
27	Minnesota	2052338	583696		334459	386456	348378	211118	188231
28	Mississippi	1146553	332090		195393	199500	191835	128441	99294
29	Missouri	2328568	658943		362917	423066	400397	267220	216025
30	Montana	386605	106051		55053	67920	74077	46678	36826
31	Nebraska	690560	203131		111703	119836	116952	72456	66482
32	Nevada	1052274	309575		189588	182388	172307	121415	77001
33	New Hamp.	516862	124416		82849	107531	96542	59390	46134
34	New Jersey	3495125	349695	560971	602207	687323	579824	377383	337722
35	New Mexico	789106	226734		124879	135450	139319	94444	68280
36	New York	7800779	864314	1387688	1283253	1433514	1277876	827695	726439
37	North Carolina	3840535	424203	640861	672514	695854	642341	436563	328199
38	North Dakota	264277	84092		38857	44318	44583	25826	26601
39	Ohio	4487574	488392	718277	710228	828630	794815	510184	437048
40	Oklahoma	1446896	435040		238457	245123	237718	166197	124361
41	Oregon	1530044	424640		253551	258558	275099	180364	137832
42	Pennsylvania	5023337	521310	783361	765686	930922	889129	582815	550114
44	Rhode Island	414223	111247		64304	78680	71935	45177	42880
45	South Carolina	1877435	516675		637979		327260	232474	163047
46	South Dakota	304700	86130		47339	53705	54124	33137	30265
47	Tennessee	2533433	701849		428893	456511	432287	295014	218879
48	Texas	9687609	1242490	1857330	1791968	1731319	1474395	911088	679019
49	Utah	988951	369170		182748	152039	135089	83269	66636
50	Vermont	245571	58014		36024	48820	48242	31250	23221
51	Virginia	3203851	349446	568127	549667	602891	530205	342904	260611
53	Washington	2656504	778420		454773	467619	457109	287048	211535
54	West Virginia	731830	181762		241513		139664	92509	76382
55	Wisconsin	2191264	599334		346905	415164	381384	236584	211893
56	Wyoming	214283	66274		69011		39127	23233	16638

Table E-4. Population Totals—State by Race/Ethnicity

STATE		TOTAL	HISPANIC*	NON-HISP WHITE	NON-HISP BLACK*	OTHER*
01	Alabama	3610627		2493755	905966	210906
02	Alaska	520362		348729		171633
04	Arizona	4868709	1257945	3022176		588588
05	Arkansas	2171801		1671446	308988	191367
06	California	28385573	9743046	12137694	1566637	4938196
08	Colorado	3913166	698651	2867425		347090
09	Connecticut	2695810	342534	2110733	242543	
10	Delaware	697405		473194	136217	87994
11	District Of Columbia	495709	47724	192624	225645	29716
12	Florida	15114109	3386074	9005504	2089073	633458
13	Georgia	7248363	552191	4204835	2125484	365853
15	Hawaii	1055297	81851	266030		707416
16	Idaho	1157828	109859	1047969		
17	Illinois	9568143	1366092	6327885	1264026	610140
18	Indiana	4801353	250131	4156669	394553	
19	Iowa	2268984		2043433		225551
20	Kansas	2097969		1687935		410034
21	Kentucky	3262126		2862996	235044	164086
22	Louisiana	3389340		2118508	1010053	260779
23	Maine	1033864		984406		49458
24	Maryland	4445794	355530	2481709	1245093	363462
25	Massachusetts	5063059	454947	3920605	297272	390235
26	Michigan	7432716		5845555	960861	626300
27	Minnesota	4014383		3417563		596820
28	Mississippi	2164026		1309798	765797	88431
29	Missouri	4475960		3708514	471608	295838
30	Montana	763881		683532		80349
31	Nebraska	1354789	107044	1141426		106319
32	Nevada	2092330	493819	1187377	160172	250962
33	New Hampshire	1011630		941635		69995
34	New Jersey	6698690	1166485	4018404	811367	702434
35	New Mexico	1537624	665341	677119		195164
36	New York	14860531	2528959	8784040	2038153	1509379
37	North Carolina	7315275	518270	4962029	1485002	349974
38	North Dakota	536639		478671		57968
39	Ohio	8620784		7136585	953075	531124
40	Oklahoma	2795584		2011053	186758	597773
41	Oregon	2985913		2423098		562815
42	Pennsylvania	9643121	497786	7828048	925814	391473

STATE		TOTAL	HISPANIC*	NON-HISP WHITE	NON-HISP BLACK*	OTHER*
44	Rhode Island	798755	92477	622431		83847
45	South Carolina	3561171		2382906	926037	252228
46	South Dakota	605347		525114		80233
47	Tennessee	4853400		3769528	756307	327565
48	Texas	18838550	6542207	9064546	2121004	1110793
49	Utah	1959870	229656	1730214		
50	Vermont	477107		455473		21634
51	Virginia	6159629	466632	4084304	1113227	495466
53	Washington	5242687	497945	3912084		832658
54	West Virginia	1425014		1340693		84321
55	Wisconsin	4289981		3679300		610681
56	Wyoming	429297		374568		54729

*Hispanic collapses with other; Non-Hispanic black collapses with other; other collapses with Non-Hispanic white

Table E-5. Population Totals—State by Marital Status

STATE		TOTAL	MARRIED	SINGLE, NEVER MARRIED	DIVORCED, WIDOWED, SEPARATED
01	Alabama	3610627	1840107	930581	839939
02	Alaska	520362	268688	156548	95126
04	Arizona	4868709	2475721	1378883	1014105
05	Arkansas	2171801	1181378	479064	511359
06	California	28385573	14087543	9206030	5092000
08	Colorado	3913166	2117529	1052847	742790
09	Connecticut	2695810	1402098	777325	516387
10	Delaware	697405	352933	200451	144021
11	District Of Columbia	495709	148800	259922	86987
12	Florida	15114109	7399862	4157483	3556764
13	Georgia	7248363	3644400	2104166	1499797
15	Hawaii	1055297	565687	309205	180405
16	Idaho	1157828	686569	239192	232067
17	Illinois	9568143	4948406	2899396	1720341
18	Indiana	4801353	2576752	1200856	1023745
19	Iowa	2268984	1303170	531325	434489
20	Kansas	2097969	1202773	484965	410231
21	Kentucky	3262126	1762427	751616	748083
22	Louisiana	3389340	1600718	1021774	766848
23	Maine	1033864	549466	245983	238415
24	Maryland	4445794	2236659	1373443	835692
25	Massachusetts	5063059	2578731	1567783	916545

STATE		TOTAL	MARRIED	SINGLE, NEVER MARRIED	DIVORCED, WIDOWED, SEPARATED
26	Michigan	7432716	3820137	2094362	1518217
27	Minnesota	4014383	2242964	1080950	690469
28	Mississippi	2164026	1048251	619750	496025
29	Missouri	4475960	2403264	1134093	938603
30	Montana	763881	415659	182076	166146
31	Nebraska	1354789	774902	333458	246429
32	Nevada	2092330	1026518	594481	471331
33	New Hampshire	1011630	571370	243048	197212
34	New Jersey	6698690	3533028	1976873	1188789
35	New Mexico	1537624	738206	474205	325213
36	New York	14860531	7097091	5051135	2712305
37	North Carolina	7315275	3802565	1974647	1538063
38	North Dakota	536639	303088	141548	92003
39	Ohio	8620784	4459678	2322734	1838372
40	Oklahoma	2795584	1514381	649298	631905
41	Oregon	2985913	1571018	776643	638252
42	Pennsylvania	9643121	4993744	2749473	1899904
44	Rhode Island	798755	388695	245550	164510
45	South Carolina	3561171	1797774	974131	789266
46	South Dakota	605347	346151	145616	113580
47	Tennessee	4853400	2564837	1196725	1091838
48	Texas	18838550	10024547	5124872	3689131
49	Utah	1959870	1192857	460272	306741
50	Vermont	477107	252542	124802	99763
51	Virginia	6159629	3293008	1674849	1191772
53	Washington	5242687	2821088	1403273	1018326
54	West Virginia	1425014	754091	342184	328739
55	Wisconsin	4289981	2348444	1163379	778158
56	Wyoming	429297	246960	97025	85312

Table E-6. Population Totals—State by Educational Attainment

STATE		TOTAL	LT HS	HS GRAD	SOME COLLEGE	COLLEGE GRAD	POST GRAD
01	Alabama	3610627	548922	1129878	1137626	507540	286661
02	Alaska	520362	48622	145407	191094	87410	47829
04	Arizona	4868709	703314	1233611	1694006	789440	448338
05	Arkansas	2171801	331004	767086	651130	277381	145200
06	California	28385573	4980386	6176658	9102346	5218751	2907432
08	Colorado	3913166	394659	846348	1299314	883557	489288

STATE		TOTAL	LT HS	HS GRAD	SOME COLLEGE	COLLEGE GRAD	POST GRAD
09	Connecticut	2695810	279645	740941	711894	545311	418019
10	Delaware	697405	83048	220494	196709	117691	79463
11	District Of Columbia	495709	49801	95404	85893	117745	146866
12	Florida	15114109	2001133	4456680	4801257	2523805	1331234
13	Georgia	7248363	1057564	2084835	2195743	1220313	689908
15	Hawaii	1055297	89582	289020	367111	212045	97539
16	Idaho	1157828	127511	329749	420704	195309	84555
17	Illinois	9568143	1143881	2582491	2933523	1830004	1078244
18	Indiana	4801353	617059	1631455	1479452	701372	372015
19	Iowa	2268984	195170	734667	776656	398581	163910
20	Kansas	2097969	209360	552441	731906	394743	209519
21	Kentucky	3262126	519008	1067716	982012	410689	282701
22	Louisiana	3389340	572118	1128585	972642	485893	230102
23	Maine	1033864	81947	354299	323743	181374	92501
24	Maryland	4445794	469597	1168537	1247463	865639	694558
25	Massachusetts	5063059	505525	1318579	1302528	1111424	825003
26	Michigan	7432716	799746	2162195	2600886	1179382	690507
27	Minnesota	4014383	335499	1038232	1370642	871684	398326
28	Mississippi	2164026	379646	650278	724388	265830	143884
29	Missouri	4475960	486550	1421741	1416244	745001	406424
30	Montana	763881	62756	214092	280772	140960	65301
31	Nebraska	1354789	128829	358089	484212	263104	120555
32	Nevada	2092330	317570	611829	731489	294098	137344
33	New Hampshire	1011630	75965	295305	303585	217742	119033
34	New Jersey	6698690	757485	1940099	1685335	1463489	852282
35	New Mexico	1537624	245560	413588	510451	205878	162147
36	New York	14860531	2095027	3942457	4026367	2814884	1981796
37	North Carolina	7315275	1050003	1958690	2366435	1281982	658165
38	North Dakota	536639	45428	141497	210579	105612	33523
39	Ohio	8620784	947413	2921696	2627525	1363217	760933
40	Oklahoma	2795584	380537	892427	900264	427927	194429
41	Oregon	2985913	322064	745776	1078097	533310	306666
42	Pennsylvania	9643121	1033540	3464893	2503825	1639635	1001228
44	Rhode Island	798755	105196	209924	235892	157107	90636
45	South Carolina	3561171	519118	1043565	1140541	552496	305451
46	South Dakota	605347	54083	192840	209164	109984	39276
47	Tennessee	4853400	677921	1626810	1424342	723917	400410
48	Texas	18838550	3329929	4891444	5844845	3222972	1549360
49	Utah	1959870	176662	470962	772124	364384	175738
50	Vermont	477107	41495	146801	133689	95502	59620
51	Virginia	6159629	709080	1569800	1782085	1248342	850322

STATE		TOTAL	LT HS	HS GRAD	SOME COLLEGE	COLLEGE GRAD	POST GRAD
53	Washington	5242687	544654	1248011	1842911	1047138	559973
54	West Virginia	1425014	214544	576169	382736	153962	97603
55	Wisconsin	4289981	411909	1358297	1398705	767707	353363
56	Wyoming	429297	29586	122891	169488	73980	33352

Table E-7. Population Totals—State by Phone Status

STATE		TOTAL 18+	CELL-ONLY	DUAL-USER	LANDLINE-ONLY
01	Alabama	3610627	1369675	1952987	287964
02	Alaska	520362	167995	330707	21660
04	Arizona	4868709	2289690	2125072	453947
05	Arkansas	2171801	1211802	845339	114660
06	California	28385573	10511036	16113072	1761465
08	Colorado	3913166	1784883	1904674	223609
09	Connecticut	2695810	684867	1765374	245570
10	Delaware	697405	185127	481188	31090
11	District Of Columbia	495709	239448	229769	26492
12	Florida	15114109	6658336	7314791	1140982
13	Georgia	7248363	3122372	3709675	416316
15	Hawaii	1055297	383353	596566	75378
16	Idaho	1157828	628399	472194	57236
17	Illinois	9568143	3983472	5106264	478407
18	Indiana	4801353	2049237	2306629	445486
19	Iowa	2268984	1106595	1050800	111589
20	Kansas	2097969	943440	1001597	152932
21	Kentucky	3262126	1350540	1609226	302360
22	Louisiana	3389340	1342553	1797009	249777
23	Maine	1033864	403459	552655	77750
24	Maryland	4445794	1361327	2826675	257793
25	Massachusetts	5063059	1337509	3361707	363843
26	Michigan	7432716	3282275	3655434	495007
27	Minnesota	4014383	1586987	2186696	240700
28	Mississippi	2164026	1134172	896684	133171
29	Missouri	4475960	1969422	2203550	302988
30	Montana	763881	308702	351228	103951
31	Nebraska	1354789	540812	720163	93814
32	Nevada	2092330	920198	950089	222043
33	New Hampshire	1011630	279462	678545	53624
34	New Jersey	6698690	1436406	4887865	374419
35	New Mexico	1537624	714067	642660	180897

STATE		TOTAL 18+	CELL-ONLY	DUAL-USER	LANDLINE-ONLY
36	New York	14860531	4128769	9411164	1320599
37	North Carolina	7315275	2749766	3960261	605247
38	North Dakota	536639	252149	217067	67422
39	Ohio	8620784	3531941	4590634	498208
40	Oklahoma	2795584	1307842	1287853	199889
41	Oregon	2985913	1291864	1435066	258982
42	Pennsylvania	9643121	2837945	5950847	854329
44	Rhode Island	798755	233207	506230	59318
45	South Carolina	3561171	1572607	1725854	262709
46	South Dakota	605347	192301	338846	74200
47	Tennessee	4853400	2056610	2473893	322898
48	Texas	18838550	9322963	8263536	1252051
49	Utah	1959870	996951	880840	82078
50	Vermont	477107	151939	251134	74034
51	Virginia	6159629	2256436	3551215	351979
53	Washington	5242687	2253765	2677688	311234
54	West Virginia	1425014	472073	731566	221376
55	Wisconsin	4289981	1792239	2098979	398762
56	Wyoming	429297	208078	195374	25845

1) Single unit, attached: Collapse with Single unit, detached or other
2) Multi, 2 units: Collapse with Multi, 3-9 units
3) Multi, 3-9 units: Collapse priority 1) Multi, 2 units 2) Multi, 10-49
4) Multi, 10-49 units: Collapse with Multi, 3-9 units
5) Multi, 50+ units: Collapse priority 1) Multi, 10-49 units 2) Multi, 3-9 units 3) Multi, 2 units
6) Mobile home, boat, RV, or van: Collapse with Single unit, detached or other
7) Collapse any remaining small cells Single unit, detached or other

STATE		TOTAL	SINGLE, DETACHED/ OTHER	SINGLE, ATTACHED	MULTI, 2 UNITS	MULTI, 3-9 UNITS	MULTI, 10-49 UNITS	MULTI, 50+ UNITS	MOBILE HOME, BOAT, RV, OR VAN*
01	Alabama	3610627			3610627				
02	Alaska	520362	409802			110560			
04	Arizona	4868709	4077729			790980			
05	Arkansas	2171801			1890163				281638
06	California	28385573	19175545	1896382		3545401	2399166	1369079	
08	Colorado	3913166	3129859			783307			
09	Connecticut	2695810	1947879			532823	215108		
10	Delaware	697405	516072	94260		87073			
11	DC	495709	229017			87976	178716		
12	Florida	15114109	9621177	953788		1406018	1286476	662332	1184318
13	Georgia	7248363	5447092			611357	566731		623183
15	Hawaii	1055297	769437			285860			
16	Idaho	1157828	1023961			133867			
17	Illinois	9568143	6484016	533127		1570614	576669	403717	
18	Indiana	4801353	4144088			657265			
19	Iowa	2268984	1947061			321923			
20	Kansas	2097969	1831716			266253			
21	Kentucky	3262126	2820782			441344			
22	Louisiana	3389340	2922931			466409			
23	Maine	1033864	855227			178637			
24	Maryland	4445794	2634439	953767		857588			
25	Massachusetts	5063059	3205101		515501	792339		550118	
26	Michigan	7432716	6430567			540121	462028		
27	Minnesota	4014383	3318420			695963			
28	Mississippi	2164026			2164026				
29	Missouri	4475960	3827094			396269	252597		
30	Montana	763881	658050			105831			
31	Nebraska	1354789	1156762			198027			

	STATE	TOTAL	SINGLE, DETACHED/ OTHER	SINGLE, ATTACHED	MULTI, 2 UNITS	MULTI, 3-9 UNITS	MULTI, 10-49 UNITS	MULTI, 50+ UNITS	MOBILE HOME, BOAT, RV, OR VAN*
32	Nevada	2092330	1622508		469822				
33	New Hamp.	1011630	786187		151318		74125		
34	New Jersey	6698690	4081638	562430	1294124		760498		
35	New Mexico	1537624	1365596		172028				
36	New York	14860531	7057488	889958	1596120	1722172	1665326	1929467	
37	North Carolina	7315275	5342387		535947		469710		967231
38	North Dakota	536639	422717		113922				
39	Ohio	8620784	7152678		907357		560749		
40	Oklahoma	2795584	2479003		316581				
41	Oregon	2985913	2405930		579983				
42	Pennsylvania	9643121	6337454	1855452	367071	528997	554147		
44	Rhode Island	798755	522465		217929		58361		
45	South Carolina	3561171	2520459		444802				595910
46	South Dakota	605347	515876		89471				
47	Tennessee	4853400	4171006		682394				
48	Texas	18838550	13893507		1513193		2070243		1361607
49	Utah	1959870	1631541		328329				
50	Vermont	477107	382921		94186				
51	Virginia	6159629	4353340	719226	458382		628681		
53	Washington	5242687	4140568		1102119				
54	West Virginia	1425014	1089314		117411				218289
55	Wisconsin	4289981	3382334		575782		331865		
56	Wyoming	429297	380799		48498				

* Mobile home, boat, rv, or van collapsed with single, detached/ other

APPENDIX F: CODEBOOK

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
	LASTDATE	num	8	INTERVIEW DATE		From call history	
1	GENHEALTH	num	3	WOULD YOU SAY THAT IN GENERAL YOUR HEALTH IS…?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EXCELLENT 2 = VERY GOOD 3 = GOOD 4 = FAIR 5 = POOR	Questionnaire	/ASK ALL/
2	AGE	num	4	WHAT IS YOUR AGE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK ALL/
3	SMOK100	num	3	HAVE YOU SMOKED AT LEAST 100 CIGARETTES IN YOUR ENTIRE LIFE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
4	SMOKNOW	num	3	DO YOU NOW SMOKE CIGARETTES…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = NOT AT ALL	Questionnaire	/ASK IF Q2 AGE EQ (18-29) OR Q3 SMOK100 EQ 1/
5	SMOKTYPE	num	3	WHEN YOU SMOKE CIGARETTES, DO YOU USUALLY SMOKE….?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = PREMADE CIGARETTES 2 = ROLL-YOUR-OWN 3 = BOTH	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
6	SMOKMENTHREG	num	3	HAVE YOU EVER SMOKED MENTHOL CIGARETTES FOR 6 MONTHS OR MORE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q3 SMOK100 EQ 1/
7	SMOKMENTHNOW	num	3	CURRENTLY, WHEN YOU SMOKE CIGARETTES, HOW OFTEN DO YOU SMOKE MENTHOL CIGARETTES…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = ALL OF THE TIME 2 = MOST OF THE TIME 3 = SOME OF THE TIME 4 = RARELY 5 = NEVER	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2)/
8	SMOKPERDAY	num	8	ON AVERAGE, ABOUT HOW MANY CIGARETTES DO YOU NOW SMOKE EACH DAY?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 666 = LESS THAN 1 CIGARETTE A DAY	Questionnaire	/ASK IF Q4 SMOKNOW EQ 1/
9	SMOKDAYS30	num	8	ON HOW MANY OF THE PAST 30 DAYS DID YOU SMOKE CIGARETTES?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q4 SMOKNOW EQ 2/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
10	CIGBRAND (This was an open-ended question in 2012-2013 and a character variable.)	num	3	DURING THE PAST 30 DAYS, WHAT BRAND OF CIGARETTES DID YOU BUY MOST OFTEN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: BASIC (BRANDED DISCOUNT) 2: CAMEL 3: DORAL (BRANDED DISCOUNT) 4: KOOL 5: MARLBORO GOLD 6: MARLBORO MENTHOL 7: MARLBORO RED 8: MARLBORO (OTHER) 9: NEWPORT BOX 10: NEWPORT MENTHOL BLUE 11: NEWPORT MENTHOL GOLD 12: NEWPORT (OTHER) 13: PALL MALL 14: SALEM 15: VIRGINIA SLIMS 16: WINSTON 66: DID NOT BUY ONE BRAND MOST OFTEN DURING THE PAST 30 DAYS 88: DID NOT BUY ANY CIGARETTE DURING THE PAST 30 DAYS 96: OTHER (SPECIFY)	Questionnaire	/ASK IF SMOKNOW EQ 1 OR 2 /

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
10	CIGBRAND_OTH	char	50	DURING THE PAST 30 DAYS, WHAT BRAND OF CIGARETTES DID YOU BUY MOST OFTEN-SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q10 CIGARBRAND EQ 96/
11	SMOKSOMEDAY	num	8	# OF CIG SMOKED 1 DAY IN PAST 30 DAYS	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 666 = LESS THAN 1 CIGARETTE A DAY	Questionnaire	/ASK IF Q9 SMOKDAYS30 EQ 1-30/
12	SMOKLAST1	num	8	HOW LONG HAS IT BEEN SINCE YOU COMPLETELY STOPPED SMOKING CIGARETTES? UNIT	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DAYS 2 = WEEKS 3 = MONTHS 4 = YEARS 666 = DATE 888 = TODAY	Questionnaire	/ASK IF (Q3 SMOK100 EQ 1 AND Q4 SMOKNOW EQ (3,-8,-7)) OR (Q4 SMOKNOW EQ 2 AND Q9 SMOKDAYS30 EQ (0,-7,-8)/
12	SMOKLSD2	num	4	# OF DAYS SINCE LAST SMOKED CIGARETTE	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q12 SMOKLAST=1/
12	SMOKLSM2	num	3	# OF MONTHS SINCE LAST SMOKED CIGARETTE	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q12 SMOKLAST=3/
12	SMOKLSW2	num	4	# OF WEEKS SINCE LAST SMOKED CIGARETTE	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q12 SMOKLAST=2/
12	SMOKLSY2	num	3	# OF YEARS SINCE LAST SMOKED CIGARETTE	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q12 SMOKLAST=4/
12	SMOKL2DD	num	3	DATE OF STOPPED SMOKING CIGARETTE (DAY)	-1 = INAPPLICABLE -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q12 SMOKLAST1=666/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
12	SMOKL2MM	num	3	DATE OF STOPPED SMOKING CIGARETTE (MONTH)	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q12 SMOKLAST1=666/
12	SMOKL2YY	num	4	DATE OF STOPPED SMOKING CIGARETTE (YEAR)	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q12 SMOKLAST1=666/
13	SMOKEVER	num	3	HAVE YOU EVER TRIED CIGARETTE SMOKING, EVEN ONE OR TWO PUFFS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q2 AGE EQ (18-29) AND Q3 SMOK100 EQ (2,-8,-7) AND Q4 SMOKNOW EQ (3,-8,-7)) OR (Q2 AGE EQ (-8,-7,30-130) AND Q3 SMOK100 EQ (2,-8,-7))/
14	SMOKFIRSTAGE	num	4	HOW OLD WERE YOU THE FIRST TIME YOU SMOKED PART OR ALL OF A CIGARETTE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q3 SMOK100 EQ 1 OR (Q2 AGE EQ (18-29) AND Q3 SMOK100 EQ (2,-8,-7) AND Q4 SMOKNOW EQ (1,2)) OR Q13 SMOKEVER EQ 1/
15	SMOKDLYPAST	num	3	HAVE YOU EVER SMOKED CIGARETTES EVERY DAY FOR AT LEAST 6 MONTHS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q3 SMOK100 EQ 1 OR (Q2 AGE EQ (18-29) AND Q3 SMOK100 EQ (2,-8,-7) AND Q4 SMOKNOW EQ (1,2)) OR Q13 SMOKEVER EQ 1/
16	SMOKDLYAGE	num	4	HOW OLD WERE YOU WHEN YOU FIRST STARTED SMOKING CIGARETTES EVERY DAY?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q4 SMOKNOW EQ 1 OR Q15 SMOKDLYPAST EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
17	SMOKDLYLAST1	num	8	ABOUT HOW LONG HAS IT BEEN SINCE YOU LAST SMOKED CIGARETTES ON A DAILY BASIS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DAYS 2 = WEEKS 3 = MONTHS 4 = YEARS 666 = DATE 888 = TODAY	Questionnaire	/ASK IF Q4 SMOKNOW EQ 2 AND Q15 SMOKDLYPAST EQ 1/
17	SMOKDLD2	num	4	DAYS SINCE LAST SMOKED ON A DAILY BASIS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q17 SMOKDLYLAST1=1/
17	SMOKDLM2	num	3	MTHS SINCE LAST SMOKED ON A DAILY BASIS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q17 SMOKDLYLAST1=3/
17	SMOKDLW2	num	4	WEEKS SINCE LAST SMOKED ON A DAILY BASIS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q17 SMOKDLYLAST1=2/
17	SMOKDLY2	num	3	YEARS SINCE LAST SMOKED ON DAILY BASIS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q17 SMOKDLYLAST1=4/
17	SMOKDLDD	num	3	DATE OF DAYS OF LAST SMOKED CIGARETTE	-1 = INAPPLICABLE -8 = DK-9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q17 SMOKDLYLAST1=666/
17	SMOKDLMM	num	3	DATE OF MONTH OF LAST SMOKED CIGARETTE	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q17 SMOKDLYLAST1=666/
17	SMOKDLYY	num	4	DATE OF YEARS OF LAST SMOKED CIGARETTE	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q17 SMOKDLYLAST1=666/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
18	SMOKYRAGO	num	3	AROUND THIS TIME 12 MONTHS AGO, WERE YOU SMOKING CIGARETTES EVERY DAY, SOME DAYS, OR NOT AT ALL?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = NOT AT ALL	Questionnaire	/ASK IF Q3 SMOK100 EQ 1 OR (Q2 AGE EQ (18-29) AND Q3 SMOK100 EQ (2,-8,-7) AND Q4 SMOKNOW EQ (1,2)) OR Q13 SMOKEVER EQ 1/
19	SUSCEPT1	num	3	HAVE YOU EVER BEEN CURIOUS ABOUT SMOKING A CIGARETTE? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) AND Q13 SMOKEVER EQ (2,-8,-7)/
20	SUSCEPT2	num	3	DO YOU THINK YOU WILL SMOKE A CIGARETTE SOON? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) AND Q3 SMOK100 EQ (2,-8,-7) AND Q4 SMOKNOW EQ (3,-8,-7)/
21	SUSCEPT3	num	3	DO YOU THINK YOU WILL SMOKE A CIGARETTE IN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) AND Q3 SMOK100 EQ (2,-8,-7) AND Q4 SMOKNOW EQ (3,-8,-7)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
22	CIGARPAST	num	3	HAVE YOU SMOKED CIGARS, CIGARILLOS, OR LITTLE FILTERED CIGARS AT LEAST 50 TIMES IN YOUR ENTIRE LIFE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
23	CIGARNOW	num	3	DO YOU NOW SMOKE CIGARS, CIGARILLOS, OR LITTLE FILTERED CIGARS EVERY DAY, SOME DAYS, RARELY, OR NOT AT ALL?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = RARELY 4 = NOT AT ALL	Questionnaire	/ASK IF (Q2 AGE EQ (18-29) AND Q22 CIGARPAST EQ (2,-8)) OR Q22 CIGARPAST EQ 1/
24	CIGARTYPE	num	3	IS THE SIZE OF THE CIGARS, CIGARILLOS, OR LITTLE FILTERED CIGARS THAT YOU USUALLY SMOKE…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = AROUND THE LENGTH OF A CIGARETTE 2 = AROUND LENGTH OF DOLLAR BILL 3 = BETWEEN LENGTH OF CIGARETTE AND A DOLLAR 4 = DON'T HAVE A USUAL SIZE OF CIGAR	Questionnaire	/ASK IF (Q23 CIGARNOW EQ (1,2,3)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
25	CIGARFILT	num	3	DO YOU USUALLY SMOKE A CIGAR, CIGARILLO OR LITTLE FILTERED CIGAR THAT HAS…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = A SPONGY FILTER 2 = A PLASTIC TIP 3 = A WOODEN TIP 4 = NO FILTER OR TIP	Questionnaire	OCT 2013-JAN 2014: /ASK IF (Q23 CIGARNOW EQ (1,2,3) AND Q24 CIGARTYPE EQ (1,2,3,-8)/ FEB-SEPT '14: /ASK IF (Q23 CIGARNOW EQ (1,2,3) AND Q24 CIGARTYPE EQ (1,2,3,4,-8)/
26	CIGARBRAND	num	3	WHAT IS THE NAME BRAND OF THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR THAT YOU USUALLY SMOKE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: AL CAPONE 2: ARTURO FUENTE 3: BACKWOODS 4: BLACK AND MILD 5: CHEYENNE 6: COHIBA 7: DJARUM 8: DUTCH MASTERS 9: MACANUDO 10: MONTECHRISTO 11: PHILLIES 12: PRIME TIME 13: ROMEO Y JULIETA 14: SMOKER'S CHOICE 15: SWISHER SWEETS 16: WHITE OWL 66: DO NOT HAVE A USUAL BRAND 96: OTHER(SPECIFY)	Questionnaire	OCT 2013-JAN 2014: /ASK IF (Q23 CIGARNOW EQ (1,2,3) AND Q24 CIGARTYPE EQ (1,2,3,-8) AND Q25 CIGARFILT EQ (1,2,3,4,-8)/ FEB-SEPT '14: /ASK IF (Q23 CIGARNOW EQ (1,2,3) AND Q24 CIGARTYPE EQ (1,2,3,4,-8) AND Q25 CIGARFILT EQ (1,2,3,4,-8)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
26	CIGARBRAND_OTH	char	50	WHAT IS THE NAME BRAND OF THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR THAT YOU USUALLY SMOKE-SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q26 CIGARBRAND EQ 96/
27	CIGARFLAV	num	3	IN THE PAST 30 DAYS, WERE ANY OF THE CIGARS, CIGARILLOS, OR LITTLE FILTERED CIGARS THAT YOU SMOKED FLAVORED TO TASTE LIKE MENTHOL OR MINT, CLOVE, SPICE, CANDY, FRUIT, CHOCOLATE OR OTHER SWEETS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO 3 = RESPONDENT DID NOR SMOKE ANY CIGARS IN THE PAST 30 DAYS	Questionnaire	/ASK IF (Q23 CIGARNOW EQ (1,2,3)/
28	CIGARFLAV2A	num	3	WAS THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR MENTHOL OR MINT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q27 CIGARFLAV EQ 1/
28	CIGARFLAV2B	num	3	WAS THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR CLOVE, SPICE OR HERB FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q27 CIGARFLAV EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
28	CIGARFLAV2C	num	3	WAS THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR FRUIT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q27 CIGARFLAV EQ 1/
28	CIGARFLAV2D	num	3	WAS THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR ALCOHOL FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q27 CIGARFLAV EQ 1/
28	CIGARFLAV2E	num	3	WAS THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR CANDY, CHOCOLATE, OR OTHER SWEET FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q27 CIGARFLAV EQ 1/
28	CIGARFLAV2F	num	3	WAS THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR ANOTHER FLAVOR?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q27 CIGARFLAV EQ 1/
28	CIGARFLAV2_OTH	char	40	WAS THE CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR ANOTHER FLAVOR-SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q28 CIGARFLAV2F EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
29	CIGARSUSCEPT	num	3	DO YOU THINK YOU WILL SMOKE A CIGAR, CIGARILLO OR LITTLE FILTERED CIGAR WITHIN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) AND Q22 CIGARPAST EQ (2,-8) AND Q23 CIGARNOW EQ (4,-8)/
30	PIPEREGPAST	num	3	HAVE YOU SMOKED A REGULAR PIPE FILLED WITH TOBACCO AT LEAST 50 TIMES IN YOUR ENTIRE LIFE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
31	PIPEREGNOW	num	3	DO YOU NOW SMOKE A REGULAR PIPE FILLED WITH TOBACCO EVERY DAY, SOME DAYS, RARELY, OR NOT AT ALL?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = RARELY 4 = NOT AT ALL	Questionnaire	/ASK IF (Q2 AGE EQ (18-29) AND Q30 PIPEREGPAST EQ (2,-8)) OR Q30 PIPEREGPAST EQ 1/
32	PIPEREGSUSCEPT	num	3	DO YOU THINK YOU WILL SMOKE A REGULAR PIPE FILLED WITH TOBACCO WITHIN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) AND Q30 PIPEREGPAST EQ (2,-8) AND Q31 PIPEREGNOW EQ (4,-8)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
33	PIPEWTREVER	num	3	HAVE YOU EVER SMOKED TOBACCO IN A HOOKAH IN YOUR ENTIRE LIFE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
34	PIPEWTRTIMES	num	3	HOW MANY TIMES IN TOTAL DO YOU THINK YOU HAVE SMOKED TOBACCO IN A HOOKAH DURING YOUR LIFETIME? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = 1-5 TIMES 2 = 6-20 TIMES 3 = 21-50 TIMES 4 = OVER 50 TIMES	Questionnaire	/ASK IF Q33 PIPEWTREVER EQ 1/
35	PIPEWTRNOW	num	3	DO YOU NOW SMOKE TOBACCO IN A HOOKAH EVERY DAY, SOME DAYS, RARELY OR NOT AT ALL?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = RARELY 4 = NOT AT ALL	Questionnaire	/ASK IF Q33 PIPEWTREVER EQ 1/
36	PIPEWTRSUSCEPT	num	3	DO YOU THINK YOU WILL SMOKE TOBACCO IN A HOOKAH WITHIN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) AND (Q33 PIPEWTREVER EQ (2,-8) OR Q35 PIPEWTRNOW EQ (4,-8))/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
37	PIPEFLAV	num	3	WAS ANY OF THE TOBACCO SMOKED IN A REGULAR PIPE OR HOOKAH FLAVORED? (SEE QUESTIONNAIRE)	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO 3 = RESPONDENT DID NOT SMOKE ANY TOBACCO IN A PIPE IN THE PAST 30 DAYS	Questionnaire	/ASK IF Q31 PIPEREGNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3)/
38	PIPEFLAV2A	num	3	WAS THE TOBACCO IN THE REGULAR PIPE OR HOOKAH MENTHOL OR MINT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YES 2: NO	Questionnaire	/ASK IF Q37 PIPEFLAV EQ 1/
38	PIPEFLAV2B	num	3	WAS THE TOBACCO IN THE REGULAR PIPE OR HOOKAH CLOVE, SPICE OR HERB FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q37 PIPEFLAV EQ 1/
38	PIPEFLAV2C	num	3	WAS THE TOBACCO IN THE REGULAR PIPE OR HOOKAH FRUIT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q37 PIPEFLAV EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
38	PIPEFLAV2D	num	3	WAS THE TOBACCO IN THE REGULAR PIPE OR HOOKAH ALCOHOL FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q37 PIPEFLAV EQ 1/
38	PIPEFLAV2E	num	3	WAS THE TOBACCO IN THE REGULAR PIPE OR HOOKAH CANDY, CHOCOLATE OR OTHER SWEET FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q37 PIPEFLAV EQ 1/
38	PIPEFLAV2F	char	3	WAS THE TOBACCO IN THE REGULAR PIPE OR HOOKAH ANOTHER FLAVOR?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q37 PIPEFLAV EQ 1/
38	PIPEFLAV2_OTH	char	40	WAS THE TOBACCO IN THE REGULAR PIPE OR HOOKAH ANOTHER FLAVOR-SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q38 PIPEFLAV2F EQ 1/
39	ECIGHEARD	num	3	BEFORE TODAY, HAD YOU EVER HEARD OF ELECTRONIC CIGARETTES OR E-CIGARETTES?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
40	ECIGEVER	num	3	HAVE YOU EVER USED AN ELECTRONIC CIGARETTE, EVEN JUST ONE TIME IN YOUR ENTIRE LIFE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q39 ECIGHEARD EQ 1/
41	ECIGTIMES	num	3	HOW MANY TIMES IN TOTAL DO YOU THINK YOU HAVE USED AN ELECTRONIC-CIGARETTE DURING YOUR LIFETIME?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = 1-10 TIMES 2 = 11-20 TIMES 3 = 21-50 TIMES 4 = OVER 50 TIMES	Questionnaire	/ASK IF Q40 ECIGEVER EQ 1/
42	ECIGNOW	num	3	DO YOU NOW USE ELECTRONIC CIGARETTES....?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = RARELY 4 = NOT AT ALL	Questionnaire	/ASK IF Q40 ECIGEVER EQ 1/
43	ECIGFLAV	num	3	WERE ANY OF THE ELECTRONIC CIGARETTES THAT YOU USED IN THE PAST 30 DAYS FLAVORED TO TASTE LIKE MENTHOL, MINT, CLOVE, SPICE, CANDY, FRUIT, CHOCOLATE, OR OTHER SWEETS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO 3 = RESP DID NOT USE ANY NON-CIG TOBACCO PRODUCT PAST 30 DAYS	Questionnaire	/ASK IF Q42 ECIGNOW EQ (1,2,3)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
44	ECIGFLAV2A	num	3	WERE THE ELECTRONIC CIGARETTES MENTHOL OR MINT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YES 2: NO	Questionnaire	/ASK IF Q43 ECIGFLAV EQ 1/
44	ECIGFLAV2B	num	3	WERE THE ELECTRONIC CIGARETTES CLOVE, SPICE OR HERB FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YES 2: NO	Questionnaire	/ASK IF Q43 ECIGFLAV EQ 1/
44	ECIGFLAV2C	num	3	WERE THE ELECTRONIC CIGARETTES CANDY, CHOCOLATE, OR OTHER SWEET FLAVORED	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YES 2: NO	Questionnaire	/ASK IF Q43 ECIGFLAV EQ 1/
44	ECIGFLAV2D	num	3	WERE THE ELECTRONIC CIGARETTES FRUIT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YES 2: NO	Questionnaire	/ASK IF Q43 ECIGFLAV EQ 1/
44	ECIGFLAV2E	num	3	WERE THE ELECTRONIC CIGARETTTES ALCOHOL FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YES 2: NO	Questionnaire	/ASK IF Q43 ECIGFLAV EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
44	ECIGFLAV2F	num	3	WERE THE ELECTRONIC CIGARETTTES ANOTHER FLAVOR?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YES 2: NO	Questionnaire	/ASK IF Q43 ECIGFLAV EQ 1/
44	ECIGFLAV2_OTH	char	40	WERE THE ELECTRONIC CIGARETTTES ANOTHER FLAVOR-SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q44 ECIGFLAV2F EQ 1/
45	ECIGSUSCEPT	num	3	DO YOU THINK YOU WILL USE AN ELECTRONIC CIGARETTE OR E-CIGARETTE IN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q40 ECIGEVER EQ (2,-8) OR Q42 ECIGNOW EQ (4,-8)
46	SMKOTHAGE	num	4	HOW OLD WERE YOU WHEN YOU FIRST SMOKED A CIGAR, CIGARILLO, OR LITTLE FILTERED CIGAR; A REGULAR PIPE OR HOOKAH; OR AN ELECTRONIC CIGARETTE-EVEN IF ONLY ONE OR TWO PUFFS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q22 CIGARPAST EQ 1 OR Q33 PIPEWTREVER EQ 1 OR Q30 PIPEREGPAST EQ 1 OR Q40 ECIGEVER EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
47	CSDPAST	num	3	HAVE YOU USED CHEWING TOBACCO, SNUFF OR DIP AT LEAST 20 TIMES IN YOUR ENTIRE LIFE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
48	CSDNOW	num	3	DO YOU NOW USE CHEWING TOBACCO, SNUFF, OR DIP…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = RARELY 4 = NOT AT ALL	Questionnaire	/ASK IF (Q2 AGE EQ (18-29) AND Q47 CSDPAST EQ (2,-8)) OR Q47 CSDPAST EQ 1/
49	CSDSUSCEPT	num	3	DO YOU THINK YOU WILL CHEW TOBACCO, OR USE SNUFF OR DIP WITHIN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) AND Q47 CSDPAST EQ (2,-8) AND Q48 CSDNOW EQ (4,-8)/
50	SNUSHEARD	num	3	HAVE YOU EVER HEARD OF SNUS, SUCH AS CAMEL SNUS OR MARLBORO SNUS?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
51	SNUSEVER	num	3	HAVE YOU EVER TRIED SNUS, EVEN JUST ONE TIME IN YOUR ENTIRE LIFE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q50 SNUSHEARD EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
52	SNUSTIMES	num	3	HOW MANY TIMES IN TOTAL DO YOU THINK YOU HAVE USED SNUS DURING YOUR LIFETIME?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = 1-10 TIMES 2 = 11-20 TIMES 3 = 21-50 TIMES 4 = OVER 50 TIMES	Questionnaire	/ASK IF Q51 SNUSEVER EQ 1/
53	SNUSNOW	num	3	DO YOU NOW USE SNUS…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = RARELY 4 = NOT AT ALL	Questionnaire	/ASK IF Q51 SNUSEVER EQ 1/
54	SNUSSUSCEPT	num	3	DO YOU THINK YOU WILL USE SNUS WITHIN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q51 SNUSEVER EQ (2,-8) OR Q53 SNUSNOW EQ (4,-8)/
55	DISSHEARD	num	3	HAVE YOU EVER HEARD OF A DISSOLVABLE TOBACCO PRODUCT?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
56	DISSEVER	num	3	HAVE YOU EVER TRIED A DISSOLVABLE TOBACCO PRODUCT, EVEN JUST ONE TIME IN YOUR ENTIRE LIFE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q55 DISSHEARD EQ 1/
57	DISSTIMES	num	3	HOW MANY TIMES IN TOTAL DO YOU THINK YOU HAVE USED A DISSOLVABLE TOBACCO PRODUCT DURING YOUR LIFETIME?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = 1-10 TIMES 2 = 11-20 TIMES 3 = 21-50 TIMES 4 = OVER 50 TIMES	Questionnaire	/ASK IF Q56 DISSEVER EQ 1/
58	DISSNOW	num	3	DO YOU NOW USE DISSOLVABLE TOBACCO PRODUCTS….?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = EVERY DAY 2 = SOME DAYS 3 = RARELY 4 = NOT AT ALL	Questionnaire	/ASK IF Q56 DISSEVER EQ 1/
59	DISSSUSCEPT	num	3	DO YOU THINK YOU WILL USE A DISSOLVABLE TOBACCO PRODUCT WITHIN THE NEXT YEAR? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY YES 2 = PROBABLY YES 3 = PROBABLY NOT 4 = DEFINITELY NOT	Questionnaire	/ASK IF Q56 DISSEVER EQ (2,-8) OR Q58 DISSNOW EQ (4,-8)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
60	SMKLSFLAV	num	3	IN THE PAST 30 DAYS, WAS ANY OF THE SMOKELESS TOBACCO PRODUCTS THAT YOU USED FLAVORED TO TASTE LIKE MENTHOL, MINT, CLOVE, SPICE, CANDY, FRUIT, CHOCOLATE, OR OTHER SWEETS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO 3 = RESPONDENT DID NOT USE ANY SMOKELESS TOBACCO PRODUCTS IN THE PAST 30	Questionnaire	/ASK IF Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
61	SMKLSFLAV2A	num	3	WAS THE SMOKELESS TOBACCO PRODUCT MENTHOL OR MINT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q60 SMKLSFLAV EQ 1/
61	SMKLSFLAV2B	num	3	WAS THE SMOKELESS TOBACCO PRODUCT CLOVE, SPICE OR HERB FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q60 SMKLSFLAV EQ 1/
61	SMKLSFLAV2C	num	3	WAS THE SMOKELESS TOBACCO PRODUCT FRUIT FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q60 SMKLSFLAV EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
61	SMKLSFLAV2D	num	3	WAS THE SMOKELESS TOBACCO PRODUCT ALCOHOL FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q60 SMKLSFLAV EQ 1/
61	SMKLSFLAV2E	num	3	WAS THE SMOKELESS TOBACCO PRODUCT CANDY, CHOCOLATEOR OTHER SWEET FLAVORED?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q60 SMKLSFLAV EQ 1/
61	SMKLSFLAV2F	num	3	WAS THE SMOKELESS TOBACCO PRODUCT ANOTHER FLAVOR?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q60 SMKLSFLAV EQ 1/
61_OTH	SMKLSFLAV2_OTH	char	40	WAS THE SMOKELESS TOBACCO PRODUCT ANOTHER FLAVOR-SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q61 SMKLSFLAV2F EQ 1/
62	SMKLSAGE	num	4	HOW OLD WERE YOU WHEN YOU FIRST TRIED SMOKELESS TOBACCO PRODUCT?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q47 CSDPAST EQ 1 OR Q51 SNUSEVER EQ 1 OR Q56 DISSEVER EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
63	TOBACYRAGO	num	3	AROUND THIS TIME 12 MONTHS AGO, WERE YOU USING ANY KIND OF TOBACCO PRODUCT?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/[ASK IF (Q13 SMOKEVER EQ 2 OR Q18 SMOKYRAGO EQ 3) AND (Q22 CIGARPAST EQ 1 OR Q33 PIPEWTREVER EQ 1 OR Q30 PIPEREGPAST EQ 1 OR Q40 ECIGEVER EQ 1 OR Q47 CSDPAST EQ 1 OR Q51 SNUSEVER EQ 1 OR Q56 DISSEVER EQ 1)] OR [Q2 AGE EQ (18-29) AND (Q23 CIGARNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3))]/
64	QUITCOM (a similar question was named OTHQUITALL in 2012)	num	3	HAVE YOU COMPLETELY QUIT USING [INSERT COMBUSTIBLE TOBACCO PRODUCTS]	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/IF [(Q3 SMOK100 EQ 1 AND Q4 SMOKNOW EQ 3) OR Q13 SMOKEVER EQ 1] AND [(Q22 CIGARPAST EQ 1 AND Q23 CIGARNOW EQ 4) OR (Q30 PIPEREGPAST EQ 1 AND Q31 PIPEREGNOW EQ 4) OR (Q33 PIPEWTREVER EQ 1 AND Q35 PIPEWTRNOW EQ 4) OR (Q47 CSDPAST EQ 1 AND Q48 CSDNOW EQ 4) OR (Q51 SNUSEVER EQ 1 AND Q53 SNUSNOW EQ 4) OR (Q56 DISSEVER EQ 1 AND Q58 DISSNOW EQ 4) OR (Q40 ECIGEVER EQ 1 AND Q42 ECIGNOW EQ 4)]/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
65	QUITCOM1 (a similar question was named OTHQUIT1 in 2012)	num	8	ABOUT HOW LONG HAS IT BEEN SINCE YOU QUIT USING [COMBUSTIBLE TOBACCO PRODUCTS]	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DAYS 2 = WEEKS 3 = MONTHS 4 = YEARS 5 = AGE 666 = DATE 888 = TODAY	Questionnaire	/ASK IF Q64 QUITCOM =1/
65	QUITCMD2 (a similar question was named OTHQUTD2 in 2012)	num	4	NUMBER OF DAYS NOT USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	FILL IF QUITCOM1=1
65	QUITCMM2 (a similar question was named OTHQUTM2 in 2012)	num	3	NUMBER OF MONTHS NOT USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	FILL IF QUITCOM1=3
65	QUITCMW2 (a similar question was named OTHQUTW2 in 2012)	num	4	NUMBER OF WEEKS NOT USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	FILL IF QUITCOM1=2
65	QUITCMY2 (a similar question was named OTHQUTY2 in 2012)	num	3	NUMBER OF YEARS NOT USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	FILL IF QUITCOM1=4
65	QUITCMDD (a similar question was named OTHQUTDD in 2012)	num	3	DAY OF QUITTING USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED -8 = DK	Questionnaire	FILL IF QUITCOM1=666
65	QUITCMYY (a similar question was named OTHQUTYY in 2012)	num	4	YEAR OF QUITTING USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	FILL IF QUITCOM1=666

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
65	QUITCMMM (a similar question was named OTHQUTMM in 2012)	num	3	MONTH OF QUITTING USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	FILL IF QUITCOM1=666
65	QUITCMA2	num	3	AGE WHEN STOPPED USING COMBUSTIBLE TOBACCO PRODUCTS	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	FILL IF QUITCOM1=5
68	SOMEDAYUSE	num	3	THINKING ABOUT THESE TOBACCO PRODUCTS, ARE THERE SOME DAYS WHEN YOU DO NOT USE ANY OF THESE PRODUCTS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF EVERYDAYPRODUCTCOUNT EQ 0 AND SOMEDAYPRODUCTCOUNT EQ (2-8)
69M	SMOKWAKE1	num	4	MINUTES AFTER WAKING UP TO 1ST USE CIGARETTE/CIGAR	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF SMOKWNUM=1
69H	SMOKWAKE2	num	3	HOURS AFTER WAKING UP TO HAVE 1ST CIGARETTE/CIGAR	-1 = INAPPLICABLE -9 = NOT ASCERTAINED	Questionnaire	/ASK IF SMOKWNUM=2/
69	SMOKWNUM	num	3	ON AVERAGE, HOW SOON AFTER YOU WAKE UP DO YOU USUALLY FIRST USE ONE OF THE TOBACCO PRODUCTS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = MINUTES 2 = HOURS	Questionnaire	/ASK IF EVERYDAYPRODUCTCOUNT EQ (1-8) OR Q68 SOMEDAYUSE EQ 2/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
70	AWAKEN	num	3	DO YOU SOMETIMES WAKE UP AT NIGHT IN ORDER TO HAVE A CIGARETTE OR OTHER TOBACCO PRODUCT?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
71	TOBACCRAVE	num	3	DURING THE PAST 30 DAYS, HAVE YOU HAD A STRONG CRAVING TO USE TOBACCO PRODUCTS OF ANY KIND?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
72	TOBACNEED	num	3	DURING THE PAST 30 DAYS, DID YOU EVER FEEL LIKE YOU REALLY NEEDED TO USE A TOBACCO PRODUCT?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
73	TOBACWANT	num	3	DURING THE PAST 30 DAYS, WAS THERE A TIME WHEN YOU WANTED TO USE A TOBACCO PRODUCT SO MUCH THAT YOU FOUND IT DIFFICULT TO THINK OF ANYTHING ELSE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
74	TOBACIRRIT	num	3	HOW TRUE IS THIS STATEMENT FOR YOU? AFTER NOT USING TOBACCO FOR A WHILE, I FEEL RESTLESS AND IRRITABLE. WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL TRUE 2 = SOMETIMES TRUE 3 = OFTEN TRUE 4 = ALWAYS TRUE	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
75	QUITATTEMPT	num	3	DURING THE PAST 12 MONTHS, HAVE YOU STOPPED SMOKING FOR 24 HOURS OR MORE BECAUSE YOU WERE TRYING TO QUIT?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
76	ECIGSWITCH	num	3	AT ANY TIME DURING THE PAST 12 MONTHS, DID YOU COMPLETELY SWITCH FROM SMOKING TRADITIONAL CIGARETTES TO USING ELECTRONIC OR E-CIGARETTES?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q12D SMOKLAST EQ LESS THAN OR EQUAL TO 12 MONTHS AND Q40 ECIGEVER EQ 1/
77	SMKLSSWITCH	num	3	AT ANY POINT DURING THE PAST 12 MONTHS, DID YOU COMPLETELY SWITCH FROM SMOKING CIGARETTES TO USING A SMOKELESS TOBACCO PRODUCT, SUCH AS CHEWING TOBACCO, DIP, SNUFF, OR SNUS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF (Q12D SMOKLAST LESS THAN OR EQUAL TO 12 MONTHS/
78	QUITCIGS	num	3	ARE YOU THINKING ABOUT QUITTING CIGARETTES FOR GOOD?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
79	QUITCIGSOON	num	3	HOW SOON ARE YOU LIKELY TO QUIT SMOKING? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = WITHIN THE NEXT 30 DAYS 2 = WITHIN THE NEXT 6 MONTHS 3 = WITHIN THE YEAR 4 = LONGER THAN A YEAR	Questionnaire	/ASK IF Q78 QUITCIGS EQ 1/
80	QUITALLTOBAC	num	3	ARE YOU THINKING ABOUT QUITTING THE USE OF ALL TOBACCO PRODUCTS FOR GOOD?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF [Q78 QUITCIGS EQ 1 AND (Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3))] OR [Q4 SMOKNOW EQ (3,-8,-7) AND (Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3))]/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
81	QUITALLTOBACSOON	num	3	HOW SOON ARE YOU LIKELY TO QUIT USING ALL TOBACCO PRODUCTS? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = WITHIN THE NEXT 30 DAYS 2 = WITHIN THE NEXT 6 MONTHS 3 = WITHIN THE YEAR 4 = LONGER THAN A YEAR	Questionnaire	/ASK IF Q80 QUITALLTOBAC EQ 1/
82	QUITPASTYR	num	3	DURING THE PAST 12 MONTHS, DID YOU STOP USING ALL KINDS OF TOBACCO PRODUCTS FOR MORE THAN ONE DAY BECAUSE YOU WERE TRYING TO QUIT USING TOBACCO?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
83	MARITAL2	num	3	WHAT IS YOUR MARITAL STATUS?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = MARRIED 2 = LIVING WITH A PARTNER 3 =DIVORCED 4 = WIDOWED 5 = SEPARATED 6 =SINGLE/NEVER MARRY/NOT LIVING W PARTNER 91 = OTHER	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
83_OTH	MARITAOT	char	30	WHAT IS YOUR MARITAL STATUS-SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q83 MARITAL2 EQ 91/
84	HISPANIC	num	3	ARE YOU HISPANIC OR LATINO, OR OF SPANISH ORIGIN?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
85A	HISPMULTI1	num	3	ARE YOU MEXICAN, MEXICAN AMERICAN, OR CHICANO?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q84 HISPANIC EQ 1/
85B	HISPMULTI2	num	3	ARE YOU PUERTO RICAN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q84 HISPANIC EQ 1/
85C	HISPMULTI3	num	3	ARE YOU CUBAN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q84 HISPANIC EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
85D	HISPMULTI4	num	3	ARE YOU ANOTHER HISPANIC, LATINO, OR SPANISH ORIGIN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q84 HISPANIC EQ 1/
85_OTH	HISPMULTI_OTH	char	40	ENTER OTHER SPECIFIED HISPANIC CATEGORY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q85D HISPMULTI14 EQ 1/
86	RACEMULTI1	num	3	ARE YOU WHITE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
86	RACEMULTI2	num	3	ARE YOU BLACK OR AFRICAN AMERICAN?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
86	RACEMULTI3	num	3	ARE YOU ASIAN?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
86	RACEMULTI4	num	3	ARE YOU NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
86	RACEMULTI5	num	3	ARE YOU AMERICAN INDIAN OR ALASKA NATIVE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
86	RACEMULTI6	num	3	ARE YOU SOME OTHER RACIAL CATEGORY?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
86_OTH	RACEMULTI_OTH	char	40	ENTER OTHER SPECIFIED RACIAL CATEGORY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q86 RACEMULTI6 EQ 1/
87	ASIANMULTI1	num	3	ARE YOU ASIAN INDIAN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI3 EQ 1/
87	ASIANMULTI2	num	3	ARE YOU CHINESE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI3 EQ 1/
87	ASIANMULTI3	num	3	ARE YOU FILIPINO?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI3 EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
87	ASIANMULTI4	num	3	ARE YOU JAPANESE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI3 EQ 1/
87	ASIANMULTI5	num	3	ARE YOU KOREAN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI3 EQ 1/
87	ASIANMULTI6	num	3	ARE YOU VIETNAMESE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI3 EQ 1/
87	ASIANMULTI7	num	3	ARE YOU SOME OTHER ASIAN CATEGORY?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI3 EQ 1/
87_OTH	ASIANMULTI_OTH	char	40	ENTER OTHER SPECIFIED ASIAN	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q87 ASIANMULTI7 EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
88	NHOPIMULTI1	num	3	ARE YOU NATIVE HAWAIIAN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI4 EQ 1/
88	NHOPIMULTI2	num	3	ARE YOU GUAMANIAN OR CHAMORRO?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI4 EQ 1/
88	NHOPIMULTI3	num	3	ARE YOU SAMOAN?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI4 EQ 1/
88	NHOPIMULTI4	num	3	ARE YOU SOME OTHER PACIFIC ISLANDER CATEGORY?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q86 RACEMULTI4 EQ 1/
88_OTH	NHOPIMULTI_OTH	char	40	ENTER OTHER SPECIFIED PACIFIC ISLANDER	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q88 NHOPIMULTI4 EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
89	EDUCA2	num	3	WHAT IS THE HIGHEST LEVEL OF SCHOOL YOU HAVE COMPLETED OR THE HIGHEST DEGREE YOU HAVE RECEIVED?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = 5TH GRADE OR LESS 2 = 6TH GRADE 3 = 7TH GRADE 4 = 8TH GRADE 5 = 9TH GRADE 6 = 10TH GRADE 7 = 11TH GRADE 8 = 12 GRADE, NO DIPLOMA 9 = GED OR EQUIVALENT 10 = HIGH SCHOOL DIPLOMA 11 = SOME COLLEGE, NO DEGREE 12 = CERTIFICATE, DIPLOMA, OR ASSOCIATE DEGREE 13 = ASSOCIATE DEGREE: ACADEMIC PROGRAM 14 = BACHELORS DEGREE 15 = MASTERS DEGREE 16 = PROFESSIONAL SCHOOL DEGREE(MD,DDS,DVM,LLB,JD) 17 = DOCTORAL DEGREE(PHD,EDD)	Questionnaire	/ASK ALL/
90	GENDERB	num	3	WHAT SEX WERE YOU AT BIRTH?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = MALE 2 = FEMALE	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
91	GENDER (wording slightly differently in 2012)	num	3	DO YOU CURRENTLY CONSIDER YOURSELF TO BE…	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = MALE 2 = FEMALE	Questionnaire	/ASK ALL/
92	TELNOSGT1	num	3	DO YOU HAVE MORE THAN ONE LANDLINE TELEPHONE NUMBER IN YOUR HOUSEHOLD?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF SAMPLE FILE TYPE EQ LANDLINE/
93	TELNOSRES	num	3	HOW MANY OF THESE ARE RESIDENTIAL NUMBERS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q92 TELNOSGT1 EQ 1/
94	CELLPERS	num	3	DO YOU HAVE A CELL PHONE FOR PERSONAL USE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF SAMPLE FILE TYPE EQ LANDLINE/
95	CELLPCTSH	num	4	PERCENT OF INCOMING CALLS RECEIVED ON CELL PHONE	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q94 CELLPERS EQ 1/
96	STATEFIPS	char	2	WHAT STATE DO YOU LIVE IN? (SELF- REPORTED)	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED AK = ALASKA… …WY = WYOMING (Please refer to the appendix for the list of state abbreviations)	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
98	EMPLOY2	num	3	ARE YOU CURRENTLY WORKING FOR PAY OR ARE YOU SELF-EMPLOYED, EITHER PART-TIME OR FULL-TIME?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/
99	HOUSINGTYPE	num	3	IN WHAT TYPE OF LIVING SPACE DO YOU CURRENTLY RESIDE?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: A ONE-FAMILY HOUSE DETACHED FROM ANY OTHER HOUSE 2: A ONE-FAMILY HOUSE ATTACHED TO ONE OR MORE HOUSES 3: A BUILDING WITH 2 APARTMENTS OR LIVING UNITS 4: A BUILDING WITH 3 TO 9 APARTMENTS OR LIVING UNITS 5: A BUILDING WITH 10 TO 49 APARTMENTS OR LIVING UNITS 6: A BUILDING WITH 50 OR MORE APARTMENTS OR LIVING UNITS 7: A MOBILE HOME, BOAT, RV, OR VAN 8: SOME OTHER TYPE OF LIVING SPACE	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
100	PROMO1	num	3	HAVE YOU NOTICED PROMOTIONS FOR FREE SAMPLES OF CIGARETTES, IN THE PAST 30 DAYS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q2 AGE EQ (18-29) OR Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
100	PROMO2	num	3	HAVE YOU NOTICED PROMOTIONS FOR FREE SAMPLES OF SMOKELESS TOBACCO PRODUCTS IN STORES AND VENUES WHERE CHILDREN ARE ALLOWED, IN THE PAST 30 DAYS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q2 AGE EQ (18-29) OR Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
100	PROMO3	num	3	(HAVE YOU NOTICED PROMOTIONS FOR) EVENTS BEING SPONSORED BY A CIGARETTE OR SMOKELESS TOBACCO BRAND NAME OR LOGO,(IN THE PAST 30 DAYS)?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q2 AGE EQ (18-29) OR Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
100	PROMO4	num	3	(HAVE YOU NOTICED PROMOTIONS FOR) CIGARETTES SOLD SINGLY IN STORES, OTHERWISE KNOWN AS 'LOOSIES,' (IN THE PAST 30 DAYS)?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q2 AGE EQ (18-29) OR Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
101	RECVPROMO1A	num	3	EVER INTENTIONALLY SUBMITTED YOUR MAILING ADDRESS TO SIGN UP FOR OFFERS OR PROMOTIONS FROM A COMPANY THAT MANUFACTURES E-CIGARETTES?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASKALL//

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
101	RECVPROMO2A	num	3	EVER INTENTIONALLY SUBMITTED YOUR MAILING ADDRESS TO SIGN UP FOR OFFERS FROM A TOBACCO COMPANY THAT MANUFACTURES CIGS/OTHER TOBACCO PRODUCTS (NOT INCLUDING E-CIGS)?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASKALL//
101	RECVPROMO1B	num	3	IN THE PAST 6 MONTHS, HAVE YOU RECEIVED ANY MAIL ADDRESSED TO YOU FROM A COMPANY THAT MANUFACTURES E-CIGARETTES?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASKALL//
101	RECVPROMO2B	num	3	IN THE PAST 6 MONTHS, HAVE YOU RECEIVED ANY MAIL ADDRESSED TO YOU FROM A TOBACCO COMPANY THAT MANUFACTURES CIGS/OTHER TOBACCO PRODUCTS (NOT INCLUDING E-CIGARETTES)?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASKALL//
101	RECVPROMO1C	num	3	DID THE MAIL CONTAIN COUPONS OR OTHER PROMOTIONS (SUCH AS A REBATE OFFER) FOR THE PURCHASE OF E-CIGARETTES?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF RECVPROMO1B Q101B EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
101	RECVPROMO2C	num	3	DID THE MAIL CONTAIN COUPONS OR OTHER PROMOTIONS (SUCH AS A REBATE OFFER) FOR TOBACCO PRODUCTS, EXCLUDING E-CIGARETTES?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF RECVPROMO2bB Q101F EQ 1/
101	RECVPROMO1D	num	3	IN THE PAST 6 MONTHS, HAVE YOU RECEIVED ANY EMAIL FROM A COMPANY THAT MANUFACTURES E-CIGARETTES?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL//
101	RECVPROMO2D	num	3	IN THE PAST 6 MONTHS, HAVE YOU RECEIVED ANY EMAIL FROM A TOBACCO COMPANY THAT MANUFACTURES CIGS/OTHER TOBACCO PRODUCTS (NOT INCLUDING E-CIGARETTES)?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL//
102	WARNLOOKCIG	num	3	HOW OFTEN, IF AT ALL, HAVE YOU SEEN A HEALTH WARNING ON CIGARETTE PACKS IN THE PAST 30 DAYS? WOULD YOU SAY…?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = VERY OFTEN 2 = OFTEN 3 = SOMETIMES 4 = RARELY 5 = NEVER	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
103	WARNSTOPCIG	num	3	IN THE PAST 30 DAYS, HAS A HEALTH WARNING ON A CIGARETTE PACK STOPPED YOU FROM HAVING A CIGARETTE WHEN YOU WERE ABOUT TO SMOKE ONE? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = MANY TIMES 2 = A FEW TIMES 3 = ONCE 4 = NEVER 5 = NO URGE TO SMOKE CIG IN PAST 30 DAYS	Questionnaire	/ASK IF Q102 WARNLOOKCIG EQ (1,2,3,4)/
104	WARNAVDCIG	num	3	IN THE PAST 30 DAYS, HAVE YOU DONE ANYTHING TO AVOID SEEING HEALTH WARNINGS ON CIGARETTE PACKS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q102 WARNLOOKCIG EQ (1,2,3,4)/
105	WARNRISKCIG	num	3	HOW OFTEN, IF AT ALL, HAVE YOU THOUGHT ABOUT THE HEALTH RISKS OF SMOKING CIGARETTES IN THE PAST 30 DAYS? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = VERY OFTEN 2 = OFTEN 3 = SOMETIMES 4 = RARELY 5 = NEVER	Questionnaire	/ASK IF Q102 WARNLOOKCIG EQ (1,2,3,4)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
106	WARNLOOKSMKLS	num	3	HOW OFTEN, IF AT ALL, HAVE YOU SEEN HEALTH WARNINGS ON SMOKELESS TOBACCO PACKAGES IN THE PAST 30 DAYS? WOULD YOU SAY…?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = VERY OFTEN 2 = OFTEN 3 = SOMETIMES 4 = RARELY 5 = NEVER	Questionnaire	/ASK ALL/
107	WARNSTOPSMKLS	num	3	IN THE PAST 30 DAYS, HAVE THE HEALTH WARNINGS ON SMOKELESS TOBACCO PACKAGES STOPPED YOU FROM USING SMOKELESS TOBACCO WHEN YOU WERE ABOUT TO? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = MANY TIMES 2 = A FEW TIMES 3 = ONCE 4 = NEVER 5 = NO URGE TO USE SMOKELESS TOBACCO IN PAST 30 DAYS	Questionnaire	/ASK IF Q106 WARNLOOKSMKLS EQ (1,2,3,4)/
108	WARNRISKSMKLS	num	3	HOW OFTEN, IF AT ALL, HAVE YOU THOUGHT ABOUT THE HEALTH RISKS OF USING SMOKELESS TOBACCO IN THE PAST 30 DAYS? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = VERY OFTEN 2 = OFTEN 3 = SOMETIMES 4 = RARELY 5 = NEVER	Questionnaire	/ASK IF Q106 WARNLOOKSMKLS EQ (1,2,3,4)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
109	WARNNOTICE	num	3	IN THE PAST 30 DAYS, HAVE YOU NOTICED ANY HEALTH WARNINGS ON TOBACCO ADVERTISEMENTS IN STORES WHERE TOBACCO PRODUCTS ARE SOLD?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q2 AGE EQ (18-29) OR Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
110	CHEMSEEN	num	3	HOW OFTEN HAVE YOU SEEN A LIST OF THE CHEMICALS CONTAINED IN TOBACCO PRODUCTS IN THE PAST TWELVE MONTHS? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NEVER 2 = RARELY 3 = SOMETIMES 4 = OFTEN	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)
111	BGHTPAST30D	num	3	HAVE YOU BOUGHT ANY CIGARETTES FOR YOURSELF IN THE PAST 30 DAYS?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
112	BUYQUANT2	num	3	THE LAST TIME YOU BOUGHT CIGARETTES FOR YOURSELF, DID YOU BUY THEM BY THE PACK, BY THE CARTON, OR AS SINGLES OR LOOSE CIGARETTES?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = BY THE PACK 2 = BY THE CARTON 3 = AS SINGLES OR LOOSE CIGARETTES 91 = OTHER SPECIFY	Questionnaire	/ASK IF Q111 BGHTPAST30D EQ 1/
112_OTH	BUYQU2OT	char	30	ENTER OTHER SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q112 BUYQUANT2 EQ 91/
113	COSTPACK2	num	8	WHAT PRICE DID YOU PAY FOR THE LAST PACK OF CIGARETTES YOU BOUGHT?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q112 BUYQUANT2 EQ 1/
114	COSTCARTON2	num	8	WHAT PRICE DID YOU PAY FOR THE LAST CARTON OF CIGARETTES YOU BOUGHT?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q112 BUYQUANT2 EQ 2/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
115	BUYWHERE	num	3	THE LAST TIME YOU BOUGHT CIGARETTES FOR YOURSELF, DID YOU BUY THEM...?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = CONVENIENCE STORE OR GAS STATION 2 = SUPERMARKET 3 = LIQUOR STORE 4 = DRUG STORE 5 = TOBACCO DISCOUNT STORE 6 = ANOTHER DISCOUNT STORE, SUCH AS WAL-MART 7 = ON AN INDIAN RESERVATION 8 = FROM A VENDING MACHINE 9 = ON THE INTERNET 10 = FROM ANOTHER PERSON 91 = OTHER	Questionnaire	/ASK IF Q111 BGHTPAST30D EQ 1/
115_OTH	BUYWHERE_OTH	char	30	ENTER OTHER SPECIFY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q115 BUYWHERE EQ 91/
116	SPECOFFERS	num	3	IN THE PAST 30 DAYS, DID YOU USE COUPONS, REBATES, BUY 1 GET 1 FREE, 2 FOR 1, OR ANY OTHER SPECIAL PROMOTIONS WHEN YOU BOUGHT CIGARETTES?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK IF Q111 BGHTPAST30D EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
117	BUYST	num	3	DID YOU BUY YOUR PACK/CARTON/CIGARETTE IN YOUR STATE OF RESIDENCE OR SOMEWHERE ELSE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: IN RESPONDENT'S STATE OF RESIDENCE 2: IN SOME OTHER STATE (INCLUDING DC) 3: IN SOME OTHER COUNTRY	Questionnaire	/ASK IF Q111 BGHTPAST30D EQ 1/
118	BUYST2	num	3	IN WHAT OTHER STATE/COUNTRY DID YOU BUY YOUR LAST PACK/CARTON/CIGARETTE	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: ENTER STATE CODE 2: ENTER COUNTRY CODE	Questionnaire	/ASK IF Q117 BUYST EQ 2 OR 3/
118	BUYST2_STATE	num	3	IN WHAT OTHER STATE/COUNTRY DID YOU BUY YOUR LAST PACK/CARTON/CIGARETTE	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: Alabama… …56: Wyoming 57: Other (specify) (Please refer to the appendix for the full list of state codes)	Questionnaire	/ASK IF Q117 BUYST2=1/
118	BUYST2_STATE_OTH	Char	40	IN WHAT OTHER STATE/COUNTRY DID YOU BUY YOUR LAST PACK/CARTON/CIGARETTE -SPECIFY STATE	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q118 BUYST2_STATE EQ 57/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
118	BUYST2_COUNTRY	num	3	IN WHAT OTHER STATE/COUNTRY DID YOU BUY YOUR LAST PACK/CARTON/CIGARETTE-COUNTRY CODE	-1 = INAPPLICABLE -9 = NOT ASCERTAINED 1: Afghanistan… …195: Zimbabwe 196: Other	Questionnaire	/ASK IF Q117 BUYST2=2/
118	BUYST2_COUNTRY_OTH	char	40	IN WHAT OTHER STATE/COUNTRY DID YOU BUY YOUR LAST PACK/CARTON/CIGARETTE-SPECIFY COUNTRY	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF BUYST2_COUNTRY=196/
119	BUYRES	num	3	HOW OFTEN DO YOU PURCHASE CIGARETTES FROM AN INDIAN RESERVATION?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1=ALL THE TIME 2=SOMETIMES 3=RARELY 4=NEVER	Questionnaire	/ASK IF Q111 BGHTPAST30D EQ 1/
120	BUYST3	num	3	HOW OFTEN DO YOU PURCHASE CIGARETTES FROM A STATE OTHER THAN YOUR STATE OF RESIDENCE?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1=ALL THE TIME 2=SOMETIMES 3=RARELY 4=NEVER	Questionnaire	/ASK IF Q111 BGHTPAST30D EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
121	SMKADDICT	num	3	OVERALL, WOULD YOU SAY THAT CIGARETTE SMOKING IS—…?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL ADDICTIVE 2 = MODERATELY ADDICTIVE 3 = VERY ADDICTIVE	Questionnaire	/ASK ALL/
122	CGRADDICT	num	3	OVERALL, WOULD YOU SAY THAT CIGAR SMOKING IS—…?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL ADDICTIVE 2 = MODERATELY ADDICTIVE 3 = VERY ADDICTIVE	Questionnaire	/ASK ALL/
123	SMKLSADDICT	num	3	OVERALL, WOULD YOU SAY THAT SMOKELESS TOBACCO USE IS—…?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL ADDICTIVE 2 = MODERATELY ADDICTIVE 3 = VERY ADDICTIVE	Questionnaire	/ASK ALL/
124	HARMCIG	num	3	HOW HARMFUL DO YOU THINK CIGARETTE SMOKING IS TO A PERSON'S HEALTH?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL HARMFUL 2 = MODERATELY HARMFUL 3 = VERY HARMFUL	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
125	HARMCIGAR	num	3	HOW HARMFUL DO YOU THINK CIGAR SMOKING IS TO A PERSON'S HEALTH?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL HARMFUL 2 = MODERATELY HARMFUL 3 = VERY HARMFUL	Questionnaire	/ASK ALL/
126	HARMSMKLS	num	3	HOW HARMFUL DO YOU THINK USING SMOKELESS TOBACCO IS TO A PERSON'S HEALTH?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL HARMFUL 2 = MODERATELY HARMFUL 3 = VERY HARMFUL	Questionnaire	/ASK ALL/
127	HARMECIG	num	3	HOW HARMFUL DO YOU THINK USING ECIGARETTES ARE TO A PERSON'S HEALTH?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL HARMFUL 2 = MODERATELY HARMFUL 3 = VERY HARMFUL	Questionnaire	/ASK ALL/
128	HARMLONG	num	3	HOW LONG DO YOU THINK SOMEONE HAS TO SMOKE BEFORE IT HARMS THEIR HEALTH? WOULD YOU SAY…?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = LESS THAN A YEAR 2 = 1 YEAR 3 = 5 YEARS 4 = 10 YEARS 5 = 20 YEARS OR MORE	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
129	CIGHALF	num	3	HOW MUCH DO YOU THINK YOUR RISK OF DEVELOPING A SMOKING-RELATED DISEASE WOULD DECREASE IF YOU CUT THE AMOUNT THAT YOU SMOKE IN HALF? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL 2 = A LITTLE 3 = SOMEWHAT 4 = A LOT	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3)/
130	HARMSOME	num	3	HOW MUCH DO YOU THINK PEOPLE HARM THEMSELVES WHEN THEY SMOKE CIGARETTES SOME DAYS BUT NOT EVERY DAY? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL 2 = A LITTLE 3 = SOMEWHAT 4 = A LOT	Questionnaire	/ASK IF Q2 AGE EQ (18-29) OR Q4 SMOKENOW EQ (1,2)/
131	SMKLSHALF	num	3	HOW MUCH DO YOU THINK YOUR RISK OF DEVELOPING A SMOKING-RELATED DISEASE WOULD DECREASE IF YOU CUT YOUR SMOKELESS TOBACCO USE BY HALF? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NOT AT ALL 2 = A LITTLE 3 = SOMEWHAT 4 = A LOT	Questionnaire	/ASK IF Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
132	CHEMTHINK	num	3	HOW OFTEN HAVE YOU THOUGHT ABOUT THE CHEMICALS CONTAINED IN TOBACCO PRODUCTS IN THE PAST TWELVE MONTHS? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = NEVER 2 = RARELY 3 = SOMETIMES 4 = OFTEN	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
133	SMOKSTART	num	3	IF YOU HAD TO DO IT OVER AGAIN, WOULD YOU HAVE STARTED USING TOBACCO? WOULD YOU SAY…?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = DEFINITELY NOT 2 = PROBABLY NOT 3 = PROBABLY YES 4 = DEFINITELY YES	Questionnaire	/ASK IF Q4 SMOKNOW EQ (1,2) OR Q23 CIGARNOW EQ (1,2,3) OR Q35 PIPEWTRNOW EQ (1,2,3) OR Q31 PIPEREGNOW EQ (1,2,3) OR Q42 ECIGNOW EQ (1,2,3) OR Q48 CSDNOW EQ (1,2,3) OR Q53 SNUSNOW EQ (1,2,3) OR Q58 DISSNOW EQ (1,2,3)/
134	HOMERULES2	num	3	NOT COUNTING DECKS, PORCHES, OR GARAGES, INSIDE YOUR HOME, IS SMOKING …?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = ALWAYS ALLOWED 2 = ALLOWED ONLY AT SOME TIMES OR IN SOME PLACES 3 = NEVER ALLOWED	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
135	SHSVEHPOL	num	3	NOT COUNTING MOTORCYCLES, IN THE VEHICLES THAT YOU OR FAMILY MEMBERS WHO LIVE WITH YOU OWN OR LEASE, IS SMOKING...?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = ALWAYS ALLOWED 2 = SOMETIMES ALLOWED IN AT LEAST ONE VEHICLE 3 = NEVER ALLOWED IN ANY VEHICLE 4 = R FAMILY DOES NOT OWN OR LEASE A VEHICLE	Questionnaire	/ASK ALL/
136	SMOKHOME7D2	num	3	NOT COUNTING DECKS, PORCHES, OR GARAGES, DURING THE PAST 7 DAYS, ON HOW MANY DAYS DID SOMEONE OTHER THAN YOU SMOKED INSIDE YOUR HOME WHILE YOU WERE AT HOME?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK ALL/
137	SHSVEHEXP	num	3	DURING THE PAST 7 DAYS, ON HOW MANY DAYS DID YOU RIDE IN A VEHICLE WHERE SOMEONE OTHER THAN YOU WAS SMOKING TOBACCO?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK ALL/
138	SHSEXPWORK	num	3	DURING THE PAST 7 DAYS, ON HOW MANY DAYS DID YOU BREATHE THE SMOKE AT YOUR WORKPLACE FROM SOMEONE OTHER THAN YOU WHO WAS SMOKING TOBACCO	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q98 EMPLOY2 EQ 1/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
139	SHSWORKPOL	num	3	AT YOUR WORKPLACE, IS SMOKING…..?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: ALLOWED IN BOTH INDOOR AND OUTDOOR AREAS 2: ALLOWED IN OUTDOOR AREAS,NEVER ALLOWED IN ANY INDOOR AREAS 3: ALLOWED IN INDOOR AREAS,NEVER ALLOWED IN ANY OUTDOOR AREAS 4: NEVER ALLOWED IN ANY INDOOR OR OUTDOOR AREA	Questionnaire	/ASK IF Q98 EMPLOY2 EQ 1/
140	SHSMUHEXP	num	3	HOW OFTEN DOES TOBACCO SMOKE ENTER YOUR LIVING SPACE FROM SOMEWHERE ELSE IN OR AROUND THE BUILDING?	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: EVERY DAY 2: A FEW TIMES A WEEK 3: A FEW TIMES A MONTH 4: ONCE A MONTH OR LESS 5: NEVER	Questionnaire	/ASK IF Q99 HOUSINGTYPE EQ (2-6) AND Q134 HOMERULES2 EQ (3)/
141	INCLES50	num	3	ANNUAL HH INCOME ALL SOURCE LESS $50K	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
141	INCLES30	num	3	ANNUAL HH INCOME ALL SOURCE LESS $30K	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	Fill if INCLES40=1
141	INCLES40	num	3	ANNUAL HH INCOME ALL SOURCE LESS $40K	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	Fill if INCLES50=1
141	INCLES20	num	3	ANNUAL HH INCOME ALL SOURCE LESS $20K	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	Fill if INCLES30=1
141	INCLES70	num	3	ANNUAL HH INCOME ALL SOURCE LESS $70K	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	Fill if INCLES50=2
141	INCLS100	num	3	ANNUAL HH INCOME ALL SOURCE LESS $100K	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	Fill if INCLES70=2

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
141	INCLS150	num	3	ANNUAL HH INCOME ALL SOURCE LESS $150K	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = YES 2 = NO	Questionnaire	Fill if INCLES100=2
142A	SEXUALORIENT1	num	3	DO YOU THINK OF YOURSELF AS...?	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: LESBIAN OR GAY 2: STRAIGHT, THAT IS, NOT LESBIAN OR GAY 3: BISEXUAL 4: SOMETHING ELSE 5: (DO NOT READ) RESPONDENT DOES NOT UNDERSTAND RESPONSES	Questionnaire	/ASK ALL/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
142B	SEXUALORIENT2	num	3	BY SOMETHING ELSE, DO YOU MEAN THAT...	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YOU ARE NOT STRAIGHT, BUT IDENTIFY WITH ANOTHER LABEL 2: YOU ARE TRANSGENDER, TRANSSEXUAL OR GENDER VARIANT. 3: YOU HAVE NOT FIGURED OUT YOUR SEXUALITY 4: YOU DO NOT THINK OF YOURSELF AS HAVING SEXUALITY. 5: YOU DO NOT USE LABELS TO IDENTIFY YOURSELF. 6: YOU MADE A MISTAKE AND DID NOT MEAN TO PICK THIS ANSWER. 7: YOU MEAN SOMETHING ELSE.	Questionnaire	/ASK IF Q142A SEXUALORIENT1 EQ 4/
142C	SEXUALORIENT3	num	3	YOU GAVE "DON'T KNOW" AS AN ANSWER. IS THAT BECAUSE …	-1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1: YOU DON'T UNDERSTAND THE WORDS. 2: YOU UNDERSTAND , BUT HAVE NOT FIGURED OUT YOUR SEXUALITY 3: YOU MEAN SOMETHING ELSE.	Questionnaire	/ASK IF Q142A SEXUALORIENT1 EQ -8/

Quest. no.	Variable	Type	Length	QUESTION/LABEL	Format	Source	Skip Pattern
142D	SEXUALORIENT_OTH	char	40	PLEASE TELL ME WHAT YOU MEAN BY "SOMETHING ELSE"?	-1 = INAPPLICABLE -7 = REFUSED -8 = DON'T KNOW -9 = NOT ASCERTAINED	Questionnaire	/ASK IF Q142B SEXUALORIENT2=7 OR Q142C SEXUALORIENT3=3/

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	INCOME2	num	8	INCOME FILL VARIABLE	-7 = REFUSED -8 = DK -9 = NOT ASCERTAINED 1 = INCOME LESS THAN 20,000 2 = INCOME 20,000 TO LESS THAN 30,000 3 = INCOME 30,000 TO LESS THAN 40,000 4 = INCOMES 40,000 TO LESS THAN 50,000 5 = INCOME 50,000 TO LESS THAN 70,000 6 = INCOME 70,000 TO LESS THAN 100,000 7 = INCOME 100,000 TO LESS THAN 150,000 8 = INCOME 150,000 OR MORE	Computed or calculated
	AGEGRP_R	num	8	AGE GROUP RECODE	1 = 18-24 yrs 2 = 25-34 yrs 3 = 35-44 yrs 4 = 45-54 yrs 5 = 55-64 yrs 6 = 65+ yrs 7 = UNKNOWN	Computed or calculated

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	COSTCARTON2_R	num	8	COST PER CARTON RECODE	1 = 10.00-19.99 2 = 20.00-29.99 3 = 30.00-39.99 4 = 40.00-49.99 5 = 50.00-59.99 6 = 60.00-69.99 7 = 70.00-79.99 8 = 80.00-89.99 9 = 90.00-99.99 10 = 100.00-109.99 11 = 110.00-119.99 12 = 120.00-129.99 13 = 130.00-139.99 -1 = INAPPLICABLE, -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Computed or calculated

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	COSTPACK2_R	num	8	COST PER PACKAGE RECODE	0=<0.99 1 = 1.00-1.99 2 = 2.00-2.99 3 = 3.00-3.99 4 = 4.00-4.99 5 = 5.00-5.99 6 = 6.00-6.99 7 = 7.00-7.99 8 = 8.00-8.99 9 = 9.00-9.99 10 = 10.00-10.99 11 = 11.00-11.99 12 = 12.00-12.99 13 = 13.00-13.99 14 = 14.00-14.99 15 = 15.00-15.99 16 = 16.00-16.99 17 = 17.00-17.99 18 = 18.00-18.99 19 = 19.00-19.99 20 = 20 -1 = INAPPLICABLE -7 = REFUSED -8 = DK -9 = NOT ASCERTAINED	Computed or calculated

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	EDUCA2_R	num	8	EDUCATION RECODE	1 = LESS THAN HIGH SCHOOL DIPLOMA, GED, OR EQUIVALENT 2 = HIGH SCHOOL DIPLOMA, GED, OR EQUIVALENT 3 = SOME COLLEGE, NO DEGREE 4 = BACHELOR'S DEGREE 5 = MASTERS, PROFESSIONAL, OR DOCTORAL DEGREE 7 = UNKNOWN	Computed or calculated
	HOMERULES2_R	num	8	HOME RULES RECODE	1 = ALWAYS ALLOWED 2 = ALLOWED ONLY AT SOME TIMES OR IN SOME PLACES 3 = NEVER ALLOWED 4 = UNKNOWN	Computed or calculated
	OTHQUITDAYS	num	8	DAYS AGO NOT USING COMBUSTIBLE TOBACCO PRODUCTS	-7 = REFUSED -8 = DK -1 = INAPPLICABLE -9 = NOT ASCERTAINED	Computed or calculated
	PIPEWTREVER_R	num	8	EVER USE WATER PIPE RECODE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	RACEETHNIC	num	8	RACE ETHNICITY RECODE	1 = WHITE ONLY, NON-HISPANIC 2 = BLACK ONLY, NON-HISPANIC 3 = ASIAN ONLY, NON-HISPANIC 4 = NAT. HAWAIIAN OR OTHER PAC. ISL. ONLY, NON-HISPANIC 5 = AMER. INDIAN, AK NAT. ONLY, NON- HISPANIC 6 = OTHER RACE ONLY, NON-HISPANIC 7 = MULTIRACIAL, NON-HISPANIC 8 = HISPANIC 9 = UNKNOWN	Computed or calculated
	RACEETHNIC_R	num	8	RACE ETHNICITY RECODE 2	1 = WHITE ONLY, NON-HISPANIC 2 = BLACK ONLY, NON-HISPANIC 3 = ASIAN ONLY, NON-HISPANIC 4 = OTHER NON-HISPANIC 5 = HISPANIC 6 = UNKNOWN	Computed or calculated
	SMOKDLYLASTDAYS	num	8	DAYS SINCE LAST SMOKED ON A DAILY BASIS RECODE	-7 = REFUSED -8 = DK -1 = INAPPLICABLE -9 = NOT ASCERTAINED	Computed or calculated
	SMOKEVER_R	num	8	EVER TRIED CIGARETTES RECODE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	SMOKLASTDAYS	num	8	DAYS OF STOPPED SMOKING CIGARETTES RECODE	-7 = REFUSED -8 = DK -1 = INAPPLICABLE -9 = NOT ASCERTAINED	Computed or calculated

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	SMOKSTATUS_R	num	8	SMOKING STATUS RECODE (CDC DEFINITION)	1 = CURRENT EVERYDAY SMOKER 2 = CURRENT SOME DAYS SMOKER 3 = FORMER SMOKER 4 = NEVER SMOKER 5 = UNKNOWN	Computed or calculated
	SMOKSTATUS2_R	num	8	SMOKING STATUS (2 LEVELS) RECODE	1 = CURRENT EVERYDAY OR SOME DAYS SMOKER 2 = NEVER SMOKER OR FORMER SMOKER 3 = UNKNOWN	Computed or calculated (only on clean file),
	SEQNO	num	8	ANNUAL SEQUENCE NUMBER		From sample file
	DENSTR	num	8	DENSITY STRATUM	1 = LISTED NUMBER STRATUM 2 = NOT LISTED ONE-PLUS BLOCK STRATUM 3 = CELL PHONE STRATUM 9 = TERRITORY OR JURISDICTION	From sample file
	GEOSTR	num	8	GEOGRAPHIC STRATUM CODE		From sample file
	STSTR	num	8	SAMPLE DESIGN STRATIFICATION VARIABLE		From sample file
	NRECSEL	num	8	NUMBER OF SAMPLE RECORDS SELECTED FROM STRATUM		From sample file
	NRECSTR	num	8	NUMBER OF RECORDS IN STRATUM		From sample file

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	LOADMNTH	num	3	SAMPLE MONTH	1 = OCTOBER 2 = NOVEMBER 3 = DECEMBER 4 = JANUARY 5 = FEBRUARY 6 = MARCH 7 = APRIL 8 = MAY 9 = JUNE 10 = JULY 11 = AUGUST 12 = SEPTEMBER	From sample file
	REPDEPTH	num	8	REPLICATE DEPTH		From sample file
	REPNO	num	8	REPLICATE NUMBER		From sample file
	STATEFIPS_S	char	2	FIPS STATE CODE FROM SAMPLE FILE	AK = ALASKA… …WY = WYOMING (Please refer to the appendix for the list of state abbreviations)	From sample file
	DISPO	num	8	FINAL DISPOSITION	1.1000 = COMPLETED SURVEY 1.2000 = PARTIALLY COMPLETED (THROUGH Q83 MARITAL2)	From call history
	LANGUAGE	num	3	INTERVIEWING LANGUAGE	1 = ENGLISH 2 = SPANISH	From call history
	LNOADULT	num	3	NUMBER OF ADULTS AGE 18 OR OLDER IN HH		From call history
	LNOMEN	num	8	NUMBER OF MEN IN HOUSEHOLD		From call history
	LNOWOMEN	num	8	NUMBER OF WOMEN IN HOUSEHOLD		From call history

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	NOATTMPTS	num	8	NUMBER OF ATTEMPTS		From call history
	PHONE_TYPE	num	3	TELEPHONE TYPE-LAND/CELL	1 = LANDLINE 2 = CELL PHONE	From call history
	WT_NATIONAL	num	8	THE WEIGHT USED TO CALCULATING NATIONAL ESTIMATES.		
	STATEFIPS_I	num	8	WHAT STATE DO YOU LIVE IN? (Imputed State FIPS)	1: Alabama… …56: Wyoming (Please refer to the appendix for the full list of state codes)	From call history
	AGEGROUP5_R	num	8	AGE GROUP RECODE (5-LEVEL)	1 = 18-29 2 = 30-39 3 = 40-49 4 = 50-64 5 = 65+ 7 = UNKNOWN	Computed or calculated
	SMOKEVER_R2	num	8	EVER TRIED CIGARETTES RECODE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	SMOKESTATUS4_R2	num	8	CIGARETTE SMOKING STATUS (4-LEVEL) RECODE (INCLUDE CASES FOR 18-29 YRS OLD)	1 = CURRENT EVERYDAY SMOKER 2 = CURRENT SOME DAYS SMOKER 3 = FORMER SMOKER 4 = NEVER SMOKER 7 = UNKNOWN	Computed or calculated
	SMOKESTATUS3_R2	num	8	SMOKING STATUS (3 LEVELS) RECODE (INCLUDE CASES FOR 18-29 YRS OLD)	1 = CURRENT SMOKER 2 = FORMER SMOKER 3 = NEVER SMOKER 7 = UNKNOWN	Computed or calculated

Question no.	Variable	Type	Length	QUESTION/LABEL	Format	Source
	SMOKESTATUS2_R2	num	8	SMOKING STATUS (2 LEVELS) RECODE (INCLUDE CASES FOR 18-29 YRS OLD)	1 = CURRENT EVERYDAY OR SOME DAYS SMOKER 2 = NEVER SMOKER OR FORMER SMOKER 7 = UNKNOWN	Computed or calculated
	CCIGAR	num	8	CURRENT CIGAR USE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	CECIG	num	8	CURRENT E-CIGARETTE USE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	CWTRPIPE	num	8	CURRENT WATERPIPE/HOOKAH USE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	CTRADPIPE	num	8	CURRENT TRADITIONAL PIPE USE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	CSMKLS	num	8	CURRENT SMOKELESS TOBACCO (CHEWING, SNUFF OR DIP) USE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	CSNUS	num	8	CURRENT SNUS USE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated
	CDISS	num	8	CURRENT DISSOLVABLE TOBACCO USE	1 = YES 2 = NO 3 = UNKNOWN	Computed or calculated

FORMATS FOR STATE/COUNTRY VARIABLES

FORMAT FOR STATEFIPS			
-1 = INAPPLICABLE	GA = GEORGIA	MO = MISSOURI	PA = PENNSYLVANIA
-7 = REFUSED	HI = HAWAII	MS = MISSISSIPPI	RI = RHODE ISLAND
-8 = DK	IA = IOWA	MT = MONTANA	SC = SOUTH CAROLINA
-9 = NOT ASCERTAINED	ID = IDAHO	NC = NORTH CAROLINA	SD = SOUTH DAKOTA
AK = ALASKA	IL = ILLINOIS	ND = NORTH DAKOTA	TN = TENNESSEE
AL = ALABAMA	IN = INDIANA	NE = NEBRASKA	TX = TEXAS
AR = ARKANSAS	KS = KANSAS	NH = NEW HAMPSHIRE	UT = UTAH
AZ = ARIZONA	KY = KENTUCKY	NJ = NEW JERSEY	VA =VIRGINIA
CA = CALIFORNIA	LA = LOUISIANA	NM = NEW MEXICO	VT = VERMONT
CO = COLORADO	MA = MASSACHUSETTS	NV = NEVADA	WA = WASHINGTON
CT = CONNECTICUT	MD = MARYLAND	NY = NEW YORK	WI = WISCONSIN
DC = DISTRICT OF COLUMBIA	ME = MAINE	OH = OHIO	WV = WEST VIRGINIA
DE = DELAWARE	MI = MICHIGAN	OK = OKLAHOMA	WY = WYOMING
FL = FLORIDA	MN = MINNESOTA	OR = OREGON	

FORMAT FOR BUYST2_STATE			
-1 = INAPPLICABLE	13: Georgia	28: Mississippi	42: Pennsylvania
-7 = REFUSED	15: Hawaii	29: Missouri	44: Rhode Island
-8 = DK	16: Idaho	30: Montana	45: South Carolina
-9 = NOT ASCERTAINED	17: Illinois	31: Nebraska	46: South Dakota
1: Alabama	18: Indiana	32: Nevada	47: Tennessee
2: Alaska	19: Iowa	33: New Hampshire	48: Texas
4: Arizona	20: Kansas	34: New Jersey	49: Utah
5: Arkansas	21: Kentucky	35: New Mexico	50: Vermont
6: California	22: Louisiana	36: New York	51: Virginia
8: Colorado	23: Maine	37: North Carolina	53: Washington
9: Connecticut	24: Maryland	38: North Dakota	54: West Virginia
10: Delaware	25: Massachusetts	39: Ohio	55: Wisconsin
11: District of Columbia	26: Michigan	40: Oklahoma	56: Wyoming
12: Florida	27: Minnesota	41: Oregon	57: Other (specify)

FORMAT FOR BUYST2_COUNTRY					
-1 = INAPPLICABLE -9 = NOT ASCERTAINED 1: Afghanistan… 2: Albania 3: Algeria 4: Andorra 5: Angola 6: Antigua and Barbuda 7: Argentina 8: Armenia 9: Australia 10: Austria 11: Azerbaijan 12: Bahamas 13: Bahrain 14: Bangladesh 15: Barbados 16: Belarus 17: Belgium 18: Belize 19: Benin 20: Bhutan 21: Bolivia 22: Bosnia and Herzegovina 23: Botswana 24: Brazil 25: Brunei 26: Bulgaria 27: Burkina Faso 28: Burundi 29: Cambodia 30: Cameroon 31: Canada 32: Cape Verde	33: Central African Republic 34: Chad 35: Chile 36: China 37: Colombia 38: Comoros 39: Congo, Democratic Republic of the 40: Congo, Republic of the 41: Costa Rica 42: Côte d'Ivoire 43: Croatia 44: Cuba 45: Cyprus 46: Czech Republic 47: Denmark 48: Djibouti 49: Dominica 50: Dominican Republic 51: Ecuador 52: Egypt 53: El Salvador 54: Equatorial Guinea 55: Eritrea 56: Estonia 57: Ethiopia 58: Federated States of Micronesia 59: Fiji 60: Finland 61: France 62: Gabon 63: Gambia 64: Georgia	65: Germany 66: Ghana 67: Greece 68: Grenada 69: Guatemala 70: Guinea 71: Guinea-Bissau 72: Guyana 73: Haiti 74: Honduras 75: Hungary 76: Iceland 77: India 78: Indonesia 79: Iran 80: Iraq 81: Ireland 82: Israel 83: Italy 84: Jamaica 85: Japan 86: Jordan 87: Kazakhstan 88: Kenya 89: Kiribati 90: Kuwait 91: Kyrgyzstan 92: Laos 93: Latvia 94: Lebanon 95: Lesotho 96: Liberia 97: Libya 98: Liechtenstein	99: Lithuania 100: Luxembourg 101: Macedonia 102: Madagascar 103: Malawi 104: Malaysia 105: Maldives 106: Mali 107: Malta 108: Marshall Islands 109: Mauritania 110: Mauritius 111: Mexico 112: Moldova 113: Monaco 114: Mongolia 115: Montenegro 116: Morocco 117: Mozambique 118: Myanmar 119: Namibia 120: Nauru 121: Nepal 122: Netherlands 123: New Zealand 124: Nicaragua 125: Niger 126: Nigeria 127: North Korea 128: Norway 129: Oman 130: Pakistan 131: Palau 132: Panama	133: Papua New Guinea 134: Paraguay 135: Peru 136: Philippines 137: Poland 138: Portugal 139: Qatar 140: Romania 141: Russia 142: Rwanda 143: Saint Kitts and Nevis 144: Saint Lucia 145: Saint Vincent and the Grenadines 146: Samoa 147: San Marino 148: São Tomé and Príncipe 149: Saudi Arabia 150: Senegal 151: Serbia 152: Seychelles 153: Sierra Leone 154: Singapore 155: Slovakia 156: Slovenia 157: Solomon Islands 158: Somalia 159: South Africa 160: South Korea 161: South Sudan 162: Spain 163: Sri Lanka 164: Sudan 165: Suriname	166: Swaziland 167: Sweden 168: Switzerland 169: Syria 170: Taiwan 171: Tajikistan 172: Tanzania 173: Thailand 174: Timor-Leste 175: Togo 176: Tonga 177: Trinidad and Tobago 178: Tunisia 179: Turkey 180: Turkmenistan 181: Tuvalu 182: Uganda 183: Ukraine 184: United Arab Emirates 185: United Kingdom 186: United States 187: Uruguay 188: Uzbekistan 189: Vanuatu 190: Vatican City 191: Venezuela 192: Vietnam 193: Yemen 194: Zambia 195: Zimbabwe 196: Other

FORMAT FOR STATEFIPS_I			
1: Alabama	20: Kansas	36: New York	54: West Virginia
2: Alaska	21: Kentucky	37: North Carolina	55: Wisconsin
4: Arizona	22: Louisiana	38: North Dakota	56: Wyoming
5: Arkansas	23: Maine	39: Ohio	
6: California	24: Maryland	40: Oklahoma	
8: Colorado	25: Massachusetts	41: Oregon	
9: Connecticut	26: Michigan	42: Pennsylvania	
10: Delaware	27: Minnesota	44: Rhode Island	
11: District of Columbia	28: Mississippi	45: South Carolina	
12: Florida	29: Missouri	46: South Dakota	
13: Georgia	30: Montana	47: Tennessee	
15: Hawaii	31: Nebraska	48: Texas	
16: Idaho	32: Nevada	49: Utah	
17: Illinois	33: New Hampshire	50: Vermont	
18: Indiana	34: New Jersey	51: Virginia	
19: Iowa	35: New Mexico	53: Washington	

FORMAT FOR STATEFIPS_S			
AK = ALASKA	IL = ILLINOIS	ND = NORTH DAKOTA	TN = TENNESSEE
AL = ALABAMA	IN = INDIANA	NE = NEBRASKA	TX = TEXAS
AR = ARKANSAS	KS = KANSAS	NH = NEW HAMPSHIRE	UT = UTAH
AZ = ARIZONA	KY = KENTUCKY	NJ = NEW JERSEY	VA =VIRGINIA
CA = CALIFORNIA	LA = LOUISIANA	NM = NEW MEXICO	VT = VERMONT
CO = COLORADO	MA = MASSACHUSETTS	NV = NEVADA	WA = WASHINGTON
CT = CONNECTICUT	MD = MARYLAND	NY = NEW YORK	WI = WISCONSIN
DC = DISTRICT OF COLUMBIA	ME = MAINE	OH = OHIO	WV = WEST VIRGINIA
DE = DELAWARE	MI = MICHIGAN	OK = OKLAHOMA	WY = WYOMING
FL = FLORIDA	MN = MINNESOTA	OR = OREGON	
GA = GEORGIA	MO = MISSOURI	PA = PENNSYLVANIA	
HI = HAWAII	MS = MISSISSIPPI	RI = RHODE ISLAND	
IA = IOWA	MT = MONTANA	SC = SOUTH CAROLINA	
ID = IDAHO	NC = NORTH CAROLINA	SD = SOUTH DAKOTA	