
**2008 COLORADO TOBACCO ATTITUDES AND BEHAVIORS
SURVEY**

METHODOLOGY REPORT

PREPARED BY:



**126 COLLEGE STREET
BURLINGTON, VT 05401**

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I. INTRODUCTION

This report describes the survey implementation for the 2008 Colorado Tobacco Attitudes and Behaviors Survey (CO TABS) conducted on behalf of the University Colorado Denver (UC). Macro International, Inc. (Macro) conducted 14,156 interviews on behalf of UC for the CO TABS between October 7, 2008 and January 27, 2009. Of these total interviews, 12,623 were conducted via landline telephone, and 1,533 were conducted via cell telephone over the course of a three-month period. The questionnaire instrument is attached in *Appendix A*.

Purpose and History of Survey

CO TABS is a surveillance study providing detailed information regarding adult tobacco use, attitudes towards tobacco-related issues, and changes in use and attitudes over time. CO TABS was first conducted in 2001 and repeated in 2005. The survey was funded in 2001 by tobacco litigation settlement dollars and in 2005 by a voter-approved tobacco tax increase. CO TABS supports implementation and evaluation of tobacco use prevention and reduction programs in Colorado.

The CO TABS questionnaire is based on the California Tobacco Survey and the tobacco-related questions from the Behavioral Risk Factor Surveillance System (BRFSS), which is conducted by the Centers for Disease Control and Prevention (CDC).

Macro conferred regularly with the UC during throughout the project, beginning with an initial kick-off meeting in August, 2008 designed to clarify expectations and provide an opportunity to discuss project details. UC and Macro met on a weekly basis thereafter to discuss sampling, programming, fielding, and other survey-related issues. Macro regularly updated the UC throughout the project via Web portal reports and informal e-mail and telephone communications. The CO TABS Web portal reports offered the following information on survey progress for both the landline and cell phone components:

- Number of completed interviews,
- CDC dispositions,
- Overall response rate,
- Average interview time,
- Completes by gender,
- Completes by race,
- Number of Hispanic completes,
- Completes by Geographic Stratum,
- Completes by Denver and Arapahoe Stratum,
- African American completes by smoking status in Arapahoe/Denver-First,
- Completes by age, and
- Completes by smoking status.

2008

Historically, the CO TABS survey collected information from people 18 years of age and older who speak English or Spanish and reside in a household with a telephone. In 2008, as in earlier iterations, the sample was designed to include extra interviews with smokers and former smokers, African American adults, Hispanic adults, and adults living in certain parts of the state. This "oversampling" allowed for more accurate analysis of these groups. In Waves 2 and 3 of 2008, the sample was also flagged by Hispanic surname and by high Hispanic geographic incidence. This sample was called by bilingual interviewers in Spanish in an effort to increase the number of Hispanic completes.

Cell Phone Survey Implementation

In order to reduce bias and reach cell phone-only (those with only a cell phone and no landline) and cell phone-mainly (those with both landline and cell phones who most often use the cell phone) households, the 2008 CO TABS incorporated a cell phone survey component. The cell phone version of the survey is similar to the landline version. The primary differences are in the screener and closing sections. The cell phone study screener, for example, did not include a household roster and random selection process, but did screen for adult status and confirmed that the respondent lived in Colorado. The cell phone introduction and closing sections included an incentive option, further discussed in *Section IV, Questionnaire Design, Cell Phone Instrument*.

II. SAMPLE DESIGN AND ELIGIBILITY REQUIREMENTS

To reach Colorado’s adult population, the CO TABS is based on a dual-frame sampling design including:

- A two-stage stratified, list-assisted, random digit dialing (RDD) sample of adults in telephone (landline) households; and
- A sample of cell phone users selected from a RDD sample of cell phone numbers.

In past iterations of the CO TABS, the sample was based on a RDD sample of landline households, which provided good population coverage until recent telecommunication changes. According to Blumberg and Luke (2008), 17 to 18 percent of households nationwide exclusively use cell phones (cell-only). For this reason, CO TABS had a cell phone supplement to ensure representation of the cell-only population in the survey. A cell phone supplement is ideal for reaching current smokers and young adults. Blumberg and Luke (2008) report adults who are cell-only (i.e. having no traditional landline residential phone) are more likely to be young and more likely to participate in risky health behaviors, such as binge drinking and smoking.¹

Together, the dual-frame sample is the basis for surveying the adult population with the following sampling objectives:

- 10,500 landline surveys (regional allocation below);
- 1,500 cell phone interviews; and
- 750 interviews with African Americans.

The landline sample was allocated to regions in proportion to population size. In addition, small counties with high smoking rates from the 2005 survey were allocated additional sample with a target of 125 interviews. This resulted in the stratification and allocation Table A, below.

Table A

	2006 State Demographer’s Office estimated population (non-institutionalized adults)	2005 Estimated Smoking Rate	Target Sample Size
Region 1	53,535	19.0%	262
a. Balance of region	33,358		137
b. Morgan (44)	20,177	23.7%	125
Region 2: Larimer (35)	215,179	13.8%	400
Region 3: Douglas (18)	185,127	9.2%	400
Region 4: El Paso (21)	428,789	19.5%	750
Region 5	29,644	13.0%	128

¹ Blumberg, S. J., & Luke, J. V. (2008, December 17). *Wireless Substitution: Early Release of Estimates From the National Health Interview Survey, January-June 2008*. Retrieved December 18, 2008, from National Center for Health Statistics: <http://www.cdc.gov/nchs/nhis.htm>

	2006 State Demographer's Office estimated population (non-institutionalized adults)	2005 Estimated Smoking Rate	Target Sample Size
Region 6	58,080	20.8%	473
a. Balance of region	35,351		98
b. Bent (6)	4,919	30.0%	125
c. Crowley (13)	5,106	29.6%	125
d. Las Animas (36)	12,704	21.3%	125
Region 7: Pueblo (51)	115,868	19.2%	321
Region 8	35,734	19.0%	253
a. Balance of region	30,847		128
b. Saguache (55)	4,887	28.5%	125
Region 9	68,935	18.2%	362
a. Balance of region	40,495		112
b. Archuleta (4)	9,495	21.9%	125
c. Montezuma (42)	18,945	28.3%	125
Region 10	74,284	15.6%	265
a. Balance of region	50,571		140
b. Delta (15)	23,713	24.3%	125
Region 11	33,564	19.4%	237
a. Balance of region	23,406		112
b. Moffat (41)	10,158	27.7%	125
Region 12	123,540	17.7%	455
a. Balance of region	73,922		205
b. Grand (25)	11,201	20.7%	125
c. Garfield (23)	38,417	23.9%	125
Region 13	61,838	22.3%	297
a. Balance of region	16,990		47
b. Fremont (22)	39,006	24.7%	125
c. Lake (33)	5,842	23.5%	125
Region 14: Adams (1)	295,383	21.0%	550
Region 15: Arapahoe (3)	406,036	16.2%	1,200
Region 16	259,578	13.4%	751
a. Boulder (7)	225,894	12.1%	626
b. Broomfield (64)	33,684	22.3%	125
Region 17	42,082	17.5%	205
a. Balance of region	29,029		80
b. Park (47)	13,053	21.2%	125
Region 18: Weld (62)	171,170	15.4%	400
Region 19: Mesa (39)	103,442	21.3%	287
Region 20: Denver (16)	434,185	20.1%	1,300
Region 21: Jefferson (30)	413,369	16.2%	750

To reach the goal of 750 African Americans, Macro further allocated sample to strata based on the density of African American population in Arapahoe and Denver. With a goal of reaching 300 African American interviews from each county, Macro optimally allocated the sample to the density strata based on a cost function where the household screening accounts for 65 percent of the cost for a full interview. After screening the households for the presence of an African American, Macro subsampled non-African American households in order to provide equal sampling weights for non-African Americans in the county.

Table B

	African American Population density	Oversampling ratio	Non-African American subsampling rate
<i>Denver</i>			
<i>High</i>	20+%	2.86	1-in-5.12
<i>Mid</i>	10-20%	2.13	1-in-3.80
<i>Low</i>	0-10%	1.00	1-in-1.79
<i>Arapahoe</i>			
<i>High</i>	10+%	2.07	1-in-3.81
<i>Low</i>	0-10%	1.00	1-in-1.84

Landline Sample

The landline sample is based on a list-assisted, stratified RDD sample of telephone numbers. A list-assisted stratified RDD sample is informed by telephone directories. The listed telephone numbers for the United States are mapped and assigned to a specific geographic location (such as a census block group, a census tract, or a ZIP code). Telephone lines are not restricted by geographic borders, but are generally associated with finite geographic areas. The mapping results in a many-to-many association between telephone exchanges and geographic boundaries (i.e. many exchanges associated with many geographic areas). The association between geographic area and telephone exchanges is quantified by tallying the number of directory-listed households in each geographic area by exchange combination. The geographic area is assigned to the telephone exchange with the most number of listed telephones (the rule of plurality). These exchange characteristics can be used for targeting certain populations, such as Hispanics and African Americans to increase sample sizes for certain subgroups, or for allocating sample to specific geographic boundaries, such as counties or regions.

The sample is designed and selected with the Genesys sampling system from Marketing Systems Group (MSG) Inc. The sampled telephone numbers are purged for known businesses by matching the numbers to business directories. Non-working numbers are removed at the time of fielding by an automated dialing system.

Cell Phone Sample

The cell phone sample is a RDD sample of cell phone numbers from cell phone exchanges and zero-blocks from the mixed-use (cell and landline) exchanges (1+ blocks are included in the landline sample). The cell phone exchanges originate from the Telecordia® TPM™ Data Source. The cell phone exchanges and mixed-use exchanges are identified from exchange type (NXXTYPE). Survey Sampling International, Inc. (SSI) selects the cell phone sample.

Sample Amount

Table C illustrates the sample amount loaded for CO TABS by wave. The landline wave one sample contained a higher than expected amount of non-working numbers. In order to verify the sample and non-working dispositions, Macro redialed a portion of the non-working numbers in wave one to confirm the call disposition status. Further, Macro checked for discrepancies in the sample. Nothing unusual was identified.

Table C

Wave 1			
	Total Sample	Non-working	Percent Non-working
Landline	66,022	34,569	53%
Cell	10,500	3,802	36%

Wave 2			
	Total Sample	Non-working	Percent Non-working
Landline	137,880	72,796	53%
Cell	13,550	4,763	35%

Wave 3			
	Total Sample	Non-working	Percent Non-working
Landline	100,106	54,281	54%
Cell	9,435	3,168	34%

III. RESPONDENT NOTIFICATION

Advanced Mailing

Prior to each fielding wave, Macro mailed an advance letter to each household in the month's sample that had been address-matched. Letters were printed on two-sides—the front in English and the reverse side in Spanish. Macro developed letter text in collaboration with the CU, translated the text into Spanish, and coordinated all aspects of the mailings. Respondents were provided a Macro toll-free number to call in order to complete the interview, as well as a contact number at CU they had further questions. The Macro toll-free number routed to an Instant Voice Recognition Program (IVR) which provided several options, including reaching a live staff person.

Macro mailed approximately 90,000 advance letters over the course of fielding.

IVR

Macro provided an inbound IVR which offered respondents the following options:

- Learn more about the study and/or verify its legitimacy,
- Speak directly to a survey representative either to ask questions or take the survey, or
- Leave a message requesting a removal from calling or to set up an appointment time or speak to a survey representative directly.
-

Macro call center supervisory staff triaged inbound calls, fielded questions, set-up call-backs, removed respondents from calling, and returned respondents' messages throughout the fielding period.

IV. QUESTIONNAIRE DESIGN

The 2008 CO TABS questionnaire was based on the 2001 and 2005 CO TABS questionnaire instruments and the CDC ATS questionnaire with some changes. The following section describes the landline and cell phone survey instruments. The questionnaire(s) administered to respondents can be found in *Appendix A*.

Landline Survey Instrument

The 2008 CO TABS landline questionnaire was comprised of 157 questions (this number excludes screener questions and questions in Section K, which collected the respondent's name and address for future contacts), and was made up of following sections:

- Current Smoking Status,
- Recent Smoking History,
- Lifetime Smoking History,
- Other Tobacco Use,
- Smoking Restrictions,
- Health Care,
- Attitudes and Opinions,
- Media Exposure,
- General Demographics, and
- Name and Address for Future Contacts.

Cell Phone Instrument

The 2008 CO TABS incorporated interviews with cell phone users. The questionnaire instrument administered to cell phone users was a slightly modified version of the landline questionnaire. The main body of the cell phone survey instrument questionnaire was identical to the landline version. However, the cell phone survey utilized a modified screener. Respondents were screened for adult status, living in the state of Colorado, and safety/availability to talk. The cell phone screener did not include a full household roster of adults and their smoking status. Also, cell phone users were offered an incentive for participation—they could choose between a \$10 amazon.com[®] gift code or donate \$10 to the Cancer League of Colorado. Incentives were mentioned in the introduction and closing text for cell phone respondents.

Cell Phone Incentive Experiment

Respondents to the CO TABS were offered an incentive (to compensate cell phone users who may pay for their minutes) to increase participation rates for the cell phone survey component.

Prior to fielding, UC and Macro decided to conduct a study to determine whether offering a charitable donation incentive affects response rates among cell phone respondents. In previous surveys, Macro has found that 30 percent of respondents generally declined compensation, choosing to participate without benefit to them. The current study was conducted to determine whether offering an option of charitable donation at the beginning of the survey affects response rate and encourages participation from certain types of respondents.

Respondents were randomized into one of two conditions for the CO TABS cell phone survey. During the introduction of the survey, half (n=15651 of total sample or 729 of the completed interviews) were offered a \$10 Amazon.com[®] gift code, and the other half (n=15619 of total sample or 671 of the completed interviews) were offered a gift certificate or the option of donating \$10 to The Cancer League of Colorado. At the conclusion of the survey, all respondents were re-offered the choice of gift code or donation.

The donation letter mailed to the Cancer League of Colorado is attached in *Appendix B*.

V. DATA COLLECTION PROTOCOL

The following section describes, in detail, the fielding periods and data collection protocol for the 2008 CO TABS.

Fielding Period

CO TABS fielded in three monthly periods or “waves.” At the onset of each wave, fresh sample was loaded. Records in that wave were then dialed according to protocol within that wave.

Data collection began with a pre-test on October 7. After collecting approximately 50 interviews, Macro paused dialing in order to check the data, verify that respondents were following survey paths appropriately, and verify skip patterns. While no programmatic issues were identified, the survey length was found to be longer than anticipated. Wave one fielding resumed and UC and Macro worked together to modify survey length shortly thereafter. Data collection ended on January 27, 2009.

In an effort reach respondents in 2008, all records received a minimum of one attempt prior to January 1, 2009. The only records dialed in January 2009 were those from the landline wave two sample which had not yet met full protocol, and wave three landline sample. However, no fresh sample was dialed in January 2009.

Table D illustrates the fielding period for each wave.

Table D

Landline						
Wave	1		2		3	
Field Start	10/7/08	Field Start	11/12/08	Field Start	12/18/08	
Field End	11/11/08	Field End	01/09/09**	Field End	1/27/09	

Cell						
Wave	1		2		3	
Field start	10/23/08	Field start	11/11/08	Field start	12/3/08	
Field End	11/20/08	Field End	12/9/08	Field End	12/22/08	

** Wave two landline had a longer than typical fielding period due to two factors: 1) changes were made to the oversampling process in the Denver/Arapahoe Strata in order to include Hispanics in the oversample. This required some discussion between Macro and UC staff, as well as programmatic changes which required testing. 2) Additional landline sample was needed to make up for low wave one performance. The additional sample had to be addressed matched and advance letters mailed to the matched households. Wave two sample started on-time, but the Denver/Arapahoe sample and additional address matched sample were delayed a few weeks until ready for dialing.

Landline Survey

The landline telephone survey was fielded from Macro’s Computer-Assisted Telephone Interviewing (CATI) Research Centers. The landline telephone survey followed a 15-attempt protocol, in which 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 distributed among three different day-parts, or
- The respondent gave a final refusal.

Experienced, supervised personnel conducted the CO TABS interviews using Computers for Marketing Corporation's (CfMC's) CATI software package. A portion of calls was conducted between 9 a.m. to 5 p.m. Monday through Friday, in order to complete interviews with respondents who were only at home during the day.

The landline CO TABS survey followed the standard ATS and BRFSS CDC protocols. To maximize response rates, Macro concentrated calls between 5 p.m. to 9 p.m. Monday through Friday, and between 10 a.m. to 9 p.m. on Saturday and Sunday. In Macro's experience, this is when most respondents are available to complete interviews. A portion of calls was conducted between 9 a.m. to 5 p.m. Monday through Friday, in order to complete interviews with respondents who were only at home during the day.

Each record in the sample received a terminal disposition or 15 attempts per household (or respondent if two were chosen). There are three calling occasions: Weekday (9–5), Weekday Evening (5–9), and Weekend (10–9). The 15 attempts per household were over the following three day parts:

- Monday – Friday: 9:00 a.m. – 5:00 p.m.: three attempts,
- Monday – Friday: 5:00 p.m. – 9:00 p.m.: seven attempts, and
- Saturday (10:00 a.m. – 9:00 p.m.) and Sunday (10:00 a.m. – 9:00 p.m.): five attempts.

These calling protocols minimized bias (such as only calling people that are available in the evenings) and maximized completeness (the effort designed to reach every eligible respondent).

Cell Phone Survey

The cell phone version utilized a modified protocol that has been used in other BRFSS and ATS cell phone studies. This modified approach is used for many cell telephone studies because cell users tend to be more accessible. They often have their cell phones with them the majority of the time, so reaching cell phone users within five attempts is attainable. Adding more attempts does not necessarily mean an increase in the response rate. A final disposition was attained when:

- The respondent completed the interview;
- The telephone number was found to be invalid;
- The record reached five attempts distributed among three different day-parts; or
- The respondent gave a final refusal.

Five attempts per household were made to each respondent over during three different day-parts:

- Monday – Friday: 9:00 a.m. – 5:00 p.m.: one attempt,
- Monday – Friday: 5:00 p.m. – 9:00 p.m.: two attempts, and

- Saturday (10:00 a.m. – 9:00 p.m.) & Sunday (10:00 a.m. – 9:00 p.m.): two attempts.

Interview Length

Table E outlines overall average and median interview length by survey type (landline or cell phone) and by smoking status.

Table E

<i>Landline</i>		
	Average	Median
Overall	21.01	20
Daily Smoker	29.25	28
Non-Daily Smoker	29.55	28
Recent Former Smoker	24.97	24
Established Former Smoker	20.61	20
Non-Smoker	19.15	18
<i>Cell</i>		
	Average	Median
Overall	22.6	21
Daily Smoker	29.2	28
Non-Daily Smoker	30.2	30
Recent Former Smoker	26	25
Established Former Smoker	21.7	21
Non-Smoker	20	19

Contacting Respondents

The following protocols were followed when contacting households and potential respondents:

Treatment of No Answers. If a call to a sampled telephone number was not answered, the number was repeatedly called at different times, during daytime and evening hours (9 a.m. to 9 p.m. Monday through Friday; 10 a.m. to 9 p.m. Saturday and Sundays), 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 contact attempts for the landline sample, and five attempts for the cell phone sample, 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 (within the permitted time schedule).

Busy Lines. Busy lines were called back at least twice at 10-minute intervals. If the line was still busy after the third attempt, the number was assigned a “busy” disposition and called during the next shift.

Respondent Selection. Once a household was contacted, one to two adults were selected for participation in the study. No interview was conducted if:

- 1) The adult was:
 - Unavailable during the survey period (the entire CO TABS fielding 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.
- 3) The number was an occupant's second residence/vacation home (which the respondent did not consider the primary place of residence)

Language of Interviewing. Interviewing for the CO TABS was conducted in English and Spanish.

Converting Initial Refusals. Protocol for the 2008 CO TABS followed a BRFSS refusal protocol. Refusals were distinguished between a selected respondent refusal versus a non-selected respondent refusal. Both types of refusals were attempted again: non-selected respondents were attempted again, if another non-selected respondent refused, the record was moved to a "Refusal Study". Selected respondent refusals were immediately moved into a "Refusal Study". Hard refusals were also immediately moved into the "Refusal Study". Interviewers were trained to disposition a record as a refusal if the respondent:

- Hung up after the name of the client had been read; or
- Gave a refusal statement such as "no thanks".

A record was considered to be a hard refusal if the respondent:

- Was angry and/or raising his or her voice;
- Persistently repeated statements such as "don't call me back, don't call me back";
- Claimed he or she hated surveys or the government; or
- Was not interested in completing the survey (but was not angry or using abusive language) and the interviewer completed all of the following criteria:
 - Verified that a household was reached;
 - Identified and reached the selected respondent;
 - Completed the screener and the confidentiality statement;
 - Completed the "Refusal Conversion" statements as set forth by UC;
 - Attempted an immediate refusal conversion; and
 - Received a definitive refusal statement from the respondent.

Once a household or individual initially refused participation, specially trained refusal conversion interviewers made a second contact, a minimum of 24 hours later, to encourage participation in the survey.

The cell phone refusal conversion protocol was different than the landline survey protocol. Interviewers were trained to attempt refusal conversion at the point of contact. If refusal conversion was not successful, the record was removed from calling.

Contacting Cell Phone Respondents. Dialing on cell phone sample requires additional interviewer training. Interviewers were trained to ensure that a respondent was in a safe situation to be on his or her cell phone. If a respondent was driving or indicated that the call came at an inconvenient time, a call-back was scheduled.

Cell phones also pose some challenges for interviewers since some cell phone carriers offer subscribers the option to play music instead of a traditional ring. Interviewers were trained to anticipate these differences when dialing on cell phone sample.

Refusal Conversion Staff

In addition to experienced interviewers, there were specially trained interviewers responsible for refusal conversion. Refusal converter interviewers called records previously dispositioned as a refusal or records that have received a disposition that must be verified. (These include “unable to complete due to impairment”, “no eligible respondent during time period”, and similar dispositions).

VI. INTERVIEWER TRAINING

Macro and UC staff worked collaboratively to create training tools for CO TABS. An initial training of interviewers, Supervisors, and Quality Assurance staff was conducted on October 3, 2008—prior to the start of data collection. The UC CO TABS Project Director attended and co-facilitated the training with Macro Project Management staff. The interviewer training, in conjunction with Macro’s quality assurance measures (discussed in the next chapter), assured consistent, high quality interviewing during data collection.

Interviewers on this study were specifically recruited for health-related survey research. All Macro employees, including interview staff, sign a statement of confidentiality upon hire. Macro’s training sessions for the CO TABS survey focused on these important aspects of the survey research process:

- Survey purpose, background, and scope of work;
- Sampling plan and interviewing targets;
- Macro’s role on the project and Macro’s project team;
- Review of the landline and cell phone survey instruments;
- Review of incentives (cell phone) and advance mailings (landline);
- Respondent selection;
- Interviewing techniques and reducing non-response;
- Refusal conversion; and
- Specific CO TABS protocols.

After the training, each interviewer worked on a computer terminal and completed each screen of the CATI survey instrument. Many different scenarios—such as respondent reactions, skip patterns, and disposition protocols—gave the interviewer a better understanding of the CATI program and the questionnaire. Macro Project Management, Supervisory staff, and UC staff were on-hand to answer questions, troubleshoot, and assist interviewers through the practice session.

VII. QUALITY ASSURANCE PROTOCOL

Macro implements stringent quality assurance protocols to ensure the highest quality data for our clients.

Data Collection Quality Assurance

Macro programmed the questionnaires using the CfMC's Survent software package, which is designed specifically for programming and managing CATI studies. CfMC software is a powerful questionnaire programming language that provides:

- Call management,
- Quota controls,
- In-bound calling capabilities,
- Multilingual interviewing capabilities,
- Data back-up,
- Monitoring, and
- Incidence tracking.²

Upon programming completion, Macro project managers rigorously tested the survey. Testing included:

- Developing scenarios to test all possible paths through the questionnaire;
- Checking frequencies of randomly generated data;
- Verifying frequencies of the data after the first two days (approximately 50 completes) of interviewing;
- Creating an automatic skip check program (to check live data for errors), written by a staff member other than the CATI programmer, which ran nightly throughout the entire data collection period; and
- Repeating the above tests/quality assurance measures any time the survey was altered during the fielding process.

To track quality assurance indicators, Macro generated reports that read the survey data file, generating summary statistics on the following:

- Interviewer efficiencies (completes per hour, on both individual interviewer and project levels);
- Demographics on completed interviews;
- All call dispositions; and
- Sample status (number of attempts, percent complete, and refusal rates).

These reports were reviewed by the project manager on a daily basis. This enabled the management team to quickly detect and resolve any problems. Checks were performed on open-ended responses to determine the accuracy of data entry by interviewers.

² Incidence is the proportion of the survey sample that is eligible to participate in the survey.

Interviewer Monitoring

Macro monitors interviewer performance through supervisors and quality assurance (QA) assistants, as well as with formal and informal performance evaluations.

The quality assurance team for this survey included the project manager, data collection manager, supervisors, and QA assistants. Monitoring was primarily conducted by Macro's QA assistants. QA assistants monitored at least 10 percent of the 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. Interviewers were scored on several measures of performance designed to reinforce proper interviewing protocol:

- Verbatim response entry;
- Dispositioning calls, leaving messages, and scheduling call-backs;
- Reading scales properly;
- Knowing the mechanics of CfMC and the CO TABS;
- Reading multiple response lists;
- Reading the introduction and persuading respondents to complete interviews;
- Pace of reading the survey;
- Clarity and/or tone of voice while interviewing;
- Probing and/or clarifying responses that are not clear;
- Keeping control of the interview;
- Converting refusals on specific questions;
- Overall professionalism;
- Being neutral while interviewing, not leading respondent; and
- Overall dialing habits.

QA staff also assured that interviewers:

- Coded incomplete interviews properly;
- Left useful messages for the next interviewer; and
- Made every attempt to complete an interview on every contact.

Monitoring forms were completed for each monitored interview; these forms rate interviewers on several areas of performance. For each of the areas, interviewers are scored on a scale of one to 10, where one is *“May require verbal/written warning. Must show immediate improvement!”* and 10 is *“Perfect! Makes every appropriate and professional effort.”*

Interviewers do not receive a perfect score of 10 on each aspect they are rated on if:

- They have to backtrack and change an item that they coded incorrectly;
- The first time they type an open-ended response, they need to revise after rereading it to the respondent;
- The respondent changes his or her answer and the response must be changed (due to interviewer error; e.g. not reading verbatim) by backing up and re-reading questions; or
- The response to a follow-up question conflicts with a prior question (due to interviewer error; e.g. not reading verbatim), and one or both responses must be changed by backing up and re-reading questions.

It is important to note that a score on the low end of the range does not mean that the data collected by that interviewer is invalid; an interviewer could obtain a low score because he or she was not effective at refusal conversion, moved through the questions with hesitation, or did not keep an appropriate pace for the survey. Macro's policy is to immediately remove interviewers whose interviewing technique does not meet these high standards.

Monitoring by UC Staff

Macro's monitoring system enabled UC staff to monitor actual interviews in-progress remotely from their offices in Colorado. UC staff monitored regularly over various day-parts throughout fielding, but concentrated most of their monitoring to weekend evening shift and weekday evening shifts.

UC staff were encouraged to ask questions and provide feedback throughout each monitoring session, and were asked to rate the monitoring at the end of each session. Macro Project Management received reports on each monitoring session from QA staff. Further, Macro Project Management and UC staff met periodically via phone to discuss monitoring sessions, and identify areas for potential interviewer retraining/skill refreshers.

VIII. CALLER ID

In order to reduce non-response, UC and Macro worked together to devise a plan for utilizing caller ID for the 2008 CO TABS. Macro has experienced that using caller ID strategically can reduce non-response. Several factors can contribute to the success of caller ID, including the geographic area of respondents, whether or not respondents have received prior notification regarding a survey, and recognition of the survey sponsor. Macro and UC worked together to devise a caller ID test to ascertain whether the use of caller ID would be effective for CO TABS.

Macro linked sample to a local Colorado 303 area code telephone number and programmed the name “Univ. of Colorado” to project and display on respondents’ phone screens. Due to the nature of cell phone use—most cell phones display a number and text for an inbound call—the caller ID function was instituted for all three waves of the cell phone sample.

No caller ID was used for the wave one landline sample. The following caller ID protocol was implemented for wave two landline sample:

- One-third of sample displayed no caller ID;
- One-third of sample started without caller ID. Caller ID was turned on after four consecutive dispositions of any of the following four combined dispositions: *ring no answer, privacy manager, call block, answering machine*;
- One-third of sample started with caller ID on. Caller ID was turned off after four consecutive dispositions of any of the following four combined Dispositions: *ring no answer, privacy manager, call block, answering machine*.

Waves two and three overlapped. UC and Macro decided, based on initial performance of the wave two caller ID test, to field wave three sample with caller ID displayed. However, there was an exception: Hispanic flagged sample (both high density and Hispanic surname) did not display caller ID in wave three. In order to ensure staffing of Spanish speaking interviewers on the Hispanic sample, while still dialing all fresh sample before January 1, 2009, this sample was dialed out of Macro’s Tucson call center. This center lacked caller ID projection capabilities at the time of fielding, but had the highest staffing of bilingual interviewers. UC prioritized to ensuring use of bilingual staff on all flagged sample over displaying caller ID to help increase response among Hispanics.

IX. DATA PROCESSING AND WEIGHTING

The following section outlines our data processing measures and weighting process of final deliverables for CO TABS.

Data Processing

Data processing is comprised of three functions: converting the raw telephone data into a user-friendly data file and finalizing dispositions, performing a quality review of the data, and formatting the data to UC specifications. This section explains how Macro accomplishes each function.

Converting the Data and Finalizing Dispositions: The first step in data processing is to identify any incomplete interviews (interviews that were terminated prior to answering the final question of the survey). The data from these interviews are reviewed to determine whether the interview could be considered complete based on rules developed by UC staff for defining a full or partial complete. For the 2008 CO TABS, a partial complete was defined as a respondent who answered E1 (E1 is not blank), but didn't answer K1 (K1 is blank). Those that do not meet the selected criteria are assigned a final "mid-terminate" disposition.

The next step is to review responses to any open-ended questions and clean and recode as necessary. Then, Macro data processing staff assign a final disposition to each record (both completed interviews and non-completes) according to CO TABS guidelines.

Quality Review and Editing: After converting and cleaning the data, Macro produced frequency tabulations of every question and variable to detect missing data or errors in skip patterns, similar to the checks performed during questionnaire programming. Macro also performed a variety of other checks—these are SAS programs ("skip-checks") designed specifically by our programmers. For each question, responses outside of the expected range were flagged. Checks were also performed across questions to evaluate consistency.

If inconsistencies were discovered, the individual cases were by further inspecting the individual record.

The final dataset includes:

- All raw variables collected in the interview and several calculated/imputed variables including variables for age, sex, and ethnicity.
- Recoded verbatim responses (to match pre-coded categories and/or to create new categories as appropriate). See *Recoding* below for details on recoding items.
- Calculated final weights based on sampling, non-response, and post-stratification factors.

Recoding: Macro reviewed verbatim responses for variables containing open-ended responses and "other/specify" verbatim responses. Macro suggested recoding certain responses; these were approved by UC before prior to recoding and creating new response categories. The following is a list of variables with new/recoded response categories:

- C15e – added response 11 “not ready/don’t want to quit”
- F10b – added response 06 “everyone/everybody”.
- F14 – added response 12 “other type of store”
- F1a – added response 06 “smell”
- G16b – added response 05 “PTSD”
- G4 – added response 08 “VA clinic/hospital”
- C5b – added response 09 “not ready/don’t want to quit” and 10 “never thought of it/not interested” and 11 “never tried”
- C6a – added response 08 “allergy”
- C9c_o – added response 03 “wellbutrin”

Formatting and Creating the Data Files: Once the data was cleaned and verified, it was formatted into SPSS. To preserve the confidentiality of the dataset, no telephone numbers will be provided, so an individual household cannot be identified. Further, section K, including respondent contact information was delivered as an independent data file, separate from survey response data.

Data Documentation

Macro provided a final codebook for the landline and cell phone instruments, naming each variable in the file with response values, including recoded values discussed above. Codebooks included question variables and weighting variables, as well as the following:

Table F

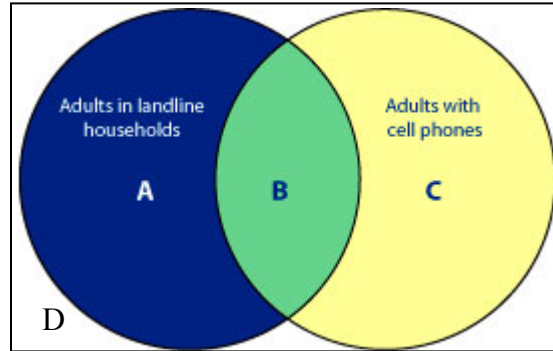
masterid	Master ID
hh_id	Household ID
person_id	Person ID
complete	Complete Flag
partial	Partial Flag
hisp_50	High Hispanic Incidence Flagging of 50+%
hispanic_flag	Surname Flag Added to Records by GENESYS
geostr	Geographic stratum
subreg	Density stratum

***Some of the above variables pertain only to the landline dataset, and therefore are only included in the landline dataset. A full list of variables exists in the codebooks delivered with the COTABS datasets.*

Weighting

Weighting survey data serves at least three important purposes: it corrects for unequal probabilities of selection introduced during the sample design—including from the dual frame sample of landline and cell users; it corrects for differential non-response among elements of the survey population, reducing potential bias associated with non-response; and finally weighting can correct for differences in demographic characteristics of the sample versus the population, reducing potential biases (coverage and non-response) in substantive estimates that may be associated with those demographics.

A dual frame design requires a weighting plan that ensures that the frames are combined so that the survey respondents accurately represent the population. The Venn diagram below displays three populations covered by the cell and landline sampling frames. Adults with a landline but no cell phone (A) must be reached through a landline telephone sample. Adults with a cell phone and no landline (C) must be reached through the cell phone sample. Adults with both a landline and a cell phone (B) can be reached through either of the frames. The population with no telephone (D) is not covered by either frame, but is only two percent of the population.



The weighting starts with separate base weights for landline and cell phone followed by a dual frame estimate for combining the two samples.

Landline RDD. For each stratum the probability that a telephone number is selected from the RDD frame is the number of selected telephone numbers (n_L) from the RDD frame divided by the number of possible numbers on the frame (N_L). The base weight for the telephone number selection is, $w_1 = N_L/n_L$.

In Arapahoe and Denver, African American households were oversampled. An African American household is defined as a household where at least one African American resides. To oversample African American households in these counties, a subsample of non-African American households was drawn. Those selected were interviewed while those not selected were not. The oversampling was expanded to include Hispanic households in the second and third waves. This subsampling resulted in the following rates (R_{Sub}):

Household Status	County Stratum	Substratum	Subsampling rate
AA household	005	High density AA	100.0%
		Low density AA	100.0%
	031	High density AA	100.0%
		Mid density AA	100.0%
Hispanic household	005	High density AA	80.4%
		Low density AA	85.4%
	031	High density AA	87.1%
		Mid density AA	90.1%
Non AA/Hispanic household	005	High density AA	28.8%
		Low density AA	44.9%
	031	High density AA	42.8%
		Mid density AA	29.0%
		Low density AA	51.4%

Households are selected with a probability proportionate to the number of telephone lines in the household. To adjust for the unequal probabilities in households with more than one telephone line, the probabilities are multiplied by the number of telephone lines as recorded during the survey (L_i). Within each household, up to two respondents are eligible for selection. In the first selection, any adult is eligible to be selected with probability inversely equal to the number of adults in the household as recorded during the survey (A_i). In certain conditions, a second respondent is selected. These include:

- 1) Smokers in household:
 - a. If the household contains one smoker, who was not selected in the first respondent selection, they are selected in the second selection.
 - b. If the household contains more than one smoker, a smoker is selected with probability inversely equal to the number of smokers not selected in the first selection.
- 2) African American non smoker in the household—Denver and Arapahoe counties.
 - a. If the household contains one African American non smoker who was not selected in the first respondent selection, they are selected in the second selection.

- b. If the household contains more than one African American non smoker, one is selected with probability inversely equal to the number of African American non smokers not selected in the first selection.

The within household respondent probability is $1/A_i$ for nonsmokers and calculated as follows for smokers:

$$\Pr(r_i) = \begin{cases} 1 & \text{if } S_i = 1 \\ \frac{1}{A_i} + \frac{1}{S_i} & \text{if } S_i > 1 \end{cases}$$

In Arapahoe and Denver, African American nonsmokers (AA) were eligible for the second selection when a smoker was not available. This only occurs when there are less than two smokers in the household.

$$\Pr(r_i) = \begin{cases} 1 & \text{if } S_i = 0 \text{ and } AA_i = 1 \\ \frac{1}{A_i} + \frac{1}{AA_i} & \text{if } S_i = 0 \text{ and } AA_i > 1 \\ \frac{1}{A_i} + \frac{1}{A_i} \times \frac{1}{AA_i} & \text{if } S_i = 1 \text{ and } AA_i > 1 \end{cases}$$

The final within household selection probabilities are:

Number of adults in the household	Non smoker selection probability	Smoker selection probability				
		Number of smokers in the household				
		1	2	3	4	5
1	1.0000	1.0000				
2	0.5000	1.0000	1.0000			
3	0.3333	1.0000	0.8333	0.6667		
4	0.2500	1.0000	0.7500	0.5833	0.5000	
5	0.2000	1.0000	0.7000	0.5333	0.4500	0.4000

Number of adults in the household	Number of smokers in household	Non AA nonsmoker selection probability	AA nonsmoker selection probability				
			Number of AA nonsmokers in the household				
			1	2	3	4	5
1	0	1.0000	1.0000				
2	1	0.5000	1.0000				
2	0	0.5000	1.0000	1.0000			
3	1	0.3333	0.6667	0.5000			
3	0	0.3333	1.0000	0.8333	0.6667		
4	1	0.2500	0.5000	0.3750	0.3333		
4	0	0.2500	1.0000	0.7500	0.5833	0.5000	
5	1	0.2000	0.4000	0.3000	0.2667	0.2500	
5	0	0.2000	1.0000	0.7000	0.5333	0.4500	0.4000

The respondent selection weight is $w_2 = w_1 / [R_{Sub} \times L_i \times \Pr(r_i)]$. The selection weight for the first respondent selected is $w_{R1} = w_1 \times R_{Sub} \times L_i / A_i$.

In many households, two adults were selected for the interview, but only one interview was conducted. A second respondent was selected (after selecting the first respondent) in either of two instances: one, when an additional smoker was available for interview, or two, if an African American or Hispanic in Denver and Arapahoe was available for interview. There were a total of 12,623 interviews (11,566 selected first and 1,057 selected second) obtained from 12,386 households. There were a total of 2262 non-respondents from these households. We adjust for second person non-response by weighting the completed interviews to the number of selected respondents in these households. The non-response adjustment is calculated by smoking status category within each region and uses the respondent selection weights.

Region	Nonsmoker	Smoker (or recent quitter)
1	1.7252	1.6435
2	1.2353	2.1686
3	1.6512	1.9237
4	1.5150	1.8335
5	1.3969	2.0833
6	2.2366	1.7124
7	1.5250	1.7709
8	1.9937	1.5330
9	1.4776	1.9817
10	1.7901	1.7490
11	1.6556	2.0612
12	1.1997	1.9692
13	1.6512	1.7104
14	1.6266	1.9310
15	1.6037	1.8094

Region	Nonsmoker	Smoker (or recent quitter)
16	1.3838	2.1529
17	1.7547	1.7601
18	1.6471	1.9745
19	1.8781	1.6683
20	1.6923	1.7800
21	1.4683	1.9877

The nonresponse adjustment is applied to the respondent selection weight for each respondent, $w_3 = w_2 \times NR_{R2}$.

Cell Phone RDD. For each stratum (region) the probability that a cell phone number is selected from the RDD frame is the number of selected cell phone numbers (n_c) divided by the total number of cell phone numbers on the frame (N_c). Cell users are selected with a probability proportionate to the number of cell phones they use. To adjust for the unequal probabilities for cell phone users with more than one cell phone, the probabilities are multiplied by the number of cell phones they use as recorded during the survey (C_i). For individual i , the probability of being

selected for the cell phone sample is $Pr_i(C) = \frac{n_c}{N_c} \times C_i$. The base weight is the inverse of the selection probability, $w_1 = Pr_i(C)^{-1}$. There is no nonresponse adjustment for cell phones so $w_2 = w_1$.

Combine Landline sample with Cell Phone. The cell phone survey asks, “In addition to your cell phone, is there at least one telephone inside your home that is currently working and is not a cell phone? Do not include telephones only used for business or telephones only used for computers or fax machines.” Those who respond ‘yes’ are cell and landline adults, while those who responded ‘no’ are cell-only adults. Similarly, the landline survey asks, “In addition to your residential landline telephone, do you also use one or more cell phone numbers?” Those who answered ‘yes’ are cell and landline, while those who responded ‘no’ are landline only. Based on these questions, we classify respondents as:

- a_1 : Landline respondents without a cell phone
- b_1 : Landline respondents with a cell phone
- b_2 : Cell phone respondents with a landline
- c_2 : Cell phone respondents without a landline

Combining the samples uses the fact that the sum of the phone group percentages equals one: $P_A + P_B + P_C = 1$. If we divide each component by the dual user component ($P_A/P_B + 1 + P_C/P_B = 1/P_B$), we can rewrite the equation as, $P_B = 1/(P_A/P_B + 1 + P_C/P_B)$. Although we don’t have estimates of the phone group percentages from the two surveys, we do have estimates of the ratios, P_A/P_B and P_C/P_B from the design weighted landline sample (a_1/b_1), and from the design weighted cell sample (c_2/b_2). Using these estimated ratios, the dual user percentage is $\hat{p}_B = 1/(a_1/b_1 + 1 + c_2/b_2)$. Using the derived estimate of the dual user percentage, we then estimate the landline only and cell only percentages using ratio estimators: $\hat{p}_A = \hat{p}_B(a_1/b_1)$ and $\hat{p}_C = \hat{p}_B(c_2/b_2)$, respectively.

These estimates extend to further poststratification of the dual user groups (b_1, b_2) into receive most calls on cell phone (b_{13}, b_{23}), receive most calls on landline (b_{11}, b_{21}), and receive calls on both regularly (b_{12}, b_{22}). The COTABS survey asked dual users (landline and cell), “Of all the telephone calls that you receive, are...”

- All or almost all calls received on a cell phone?
- Some received on a cell phone and some on a regular landline phone?
- Very few or none received on a cell phone?

With five phone groups ($P_A + P_{B1} + P_{B2} + P_{B3} + P_C = 1$), the ratios are calculated relative to the dual users who receive some calls on a cell phone and some on a regular landline phone (B_2). The other dual user groups (cell-mostly and landline-mostly) are estimated as described for landline-only and cell-only in the three group situation. The only difference is that the landline and cell phone surveys provide estimates of the three dual user groups. Thus we average the two estimates. Using these final ratio estimates and the equations for the percentages (presented above), we estimate the phone groups. This method produces an estimate of the cell only, 14.3% population that is consistent with the state level cell only estimate for Colorado based on a model using data from the National Health Interview Survey (NHIS), 15.2%³.

	Dual user				
	Landline only (a/b2)	Landline mostly (b1/b2)	Dual	Cell mostly (b3/b2)	Cell only (c/b2)
From landline	0.65	0.53	1	0.24	N/A
From cell	N/A	0.79	1	0.40	0.44
Average	0.65	0.66	1	0.32	0.44
Estimated distribution	21.0%	21.4%	32.8%	10.5%	14.4%

Using this expected distribution, we weight the landline sample and the cell sample to their respective population estimates:

- The landline only sample (a_1) to the landline population (A);
- The cell-only sample (c_2) to the cell-only population (C) ; and
- Each dual user sample ($b_{11}, b_{21}, b_{12}, b_{22}, b_{13}, b_{23}$) separately to the dual user populations (B1, B2, B3).

For each of these three dual-user groups ($j = 1, 2, 3$), we average the two sets of weights (both are weighted to the population) from the landline sample (1) and the cell sample (2) with a composite weight based on sample size and estimated design effect:

³ Blumberg SJ, Luke JV, Davidson G, Davern ME, Yu T, Soderberg K. Wireless substitution: State-level estimates from the National Health Interview Survey, January–December 2007. National health statistics reports; no 14. Hyattsville, MD: National Center for Health Statistics. 2009.

$f_j = \frac{b_{1j} / deff_{1j}}{b_{1j} / deff_{1j} + b_{2j} / deff_{2j}}$, where $deff_{1j} = b_{1j} \sum_{b_{1j}} w_3^2 \times \left(\sum_{b_{1j}} w_3 \right)^{-2}$ is the design effect for the landline sample (1) and $deff_{2j}$ is the design effect for the cell sample (2).

By weighting by inverse variances (the sample sizes divided by the square of the design effects), or by the reciprocals of effective sample sizes, the weighting coefficients are developed to minimize mean square errors of the composite weighted estimates (see Iachan et al., 2003, for example).

Calculations for Combining Landline/Address with Cell Phone

	Design-weighted Sample Total	Population estimate	Ratio adjustment (PH)	Composite weight (c)
Landline respondents with no cell phone⁴	a_1	\hat{p}_A	$A / \sum_{a_1} w_3$	1
Landline respondents with a cell phone	b_1	\hat{p}_B		
Cell-mostly	b_{11}	\hat{p}_{B_1}	$B_1 / \sum_{b_{11}} w_3$	f_1
Both	b_{12}	\hat{p}_{B_2}	$B_2 / \sum_{b_{12}} w_3$	f_2
Landline-mostly	b_{13}	\hat{p}_{B_3}	$B_3 / \sum_{b_{13}} w_3$	f_3
Cell phone respondents with a landline	b_2	\hat{p}_B		
Cell-mostly	b_{21}	\hat{p}_{B_1}	$B_1 / \sum_{b_{21}} w_3$	$1-f_1$
Both	b_{22}	\hat{p}_{B_2}	$B_2 / \sum_{b_{22}} w_3$	$1-f_2$
Landline-mostly	b_{23}	\hat{p}_{B_3}	$B_3 / \sum_{b_{23}} w_3$	$1-f_3$
Cell phone respondents without a landline	c_2	\hat{p}_C	$C / \sum_{c_2} w_3$	1

Cell phone response adjustment. Prior to calculating the ratios above, the cell phone respondents are adjusted for response propensity. Cell phone surveys tend to overrepresent cell users who use their cell phone more often such as those who are cell only and cell mostly. This results in a sample that has a higher percentage of cell only and cell mostly users relative to dual users and landline only users. This skews the ratios used in the weighting to estimate the phone group percentages. Therefore we adjust the cell phone sample based on a response propensity model. This model estimates the probability of observing a cell phone respondent in a cell phone

⁴ Respondents in the address sample who report no phone at all will be included in this group for weighting.

sample relative to observing a cell phone respondent in the NHIS, an in-person survey that is not skewed according to cell phone use. The predictor variables include age group, race group, and a characteristic that describes an individual's cell phone use:

1. Does not have a landline (cell only)
2. Very few or none received on a cell phone (cell mostly)
3. Some received on a cell phone and some on a regular landline phone (dual)
4. All or almost all calls received on a cell phone (landline mostly)

The model is built using a national cell phone sample and applied to the COTABS cell phone sample. The application of the national model at the state-level assumes that a response propensity for cell phone users does not vary between states. After applying the model to the COTABS cell sample to estimate a response propensity, respondents are weighted by the inverse of the response propensity. Applying the model to the COTABS data was successful in reducing the cell only bias inherent in cell phone surveys.

Combine All Samples

After separately weighting each of the phone groups to their respective populations, the final step is to combine the separate samples into one. While each separate sample group represents their respective phone population, collectively the three groups represent the full population displayed in the Venn diagram shown earlier (A+B+C) so the three mutually exclusive samples are added together. As a final step in the weighting, we post-stratify the combined sample and calibrate the weighted COTABS data to reflect population distributions based on age (18-29, 30-44, 45-54, 55-64, and 65+)×sex and race×Hispanic origin (Hispanic, NH white, NH black, NH other) for each geographic region. Several regions did not have large enough minority sample sizes to accommodate the weighting. The race groups were collapsed in these instances. Further, age cells with small sample sizes were collapsed with neighboring cells. The weighted demographic totals at the state level did not reflect the population demographic distributions on some dimensions. Therefore, we calibrated to the state demographic distributions for the same demographic variables. We iteratively adjusted (i.e. raking) the sample until the collapsed demographics matched at the region level, and the expanded demographics matched at the state level.

The population totals for weighting are based on the 2007 population estimates produced by the US Census Bureau (<http://www.census.gov/popest/estimates.html>). These estimates include the population living in group quarters (such as prisons, nursing homes, etc.) To calculate regional estimates of the household population, we adjust the 2007 population based on the ratio of household population to total population from Census 2000. The adjustment is based on population totals for age, sex, race and Hispanic origin.

Imputations for weighting

A hot-deck imputation algorithm imputes for item nonresponse to the following weighting variables: region, age, sex, race, number of telephone lines, and number of cell phones. Hot-deck imputation involves the substitution of a missing value with a nonmissing value from a respondent (or donor) with similar characteristics. The imputation is done separately for the cell phone survey and the landline survey. For the respondents who do not provide responses, we impute as follows:

- First, when necessary, a respondent’s sex is imputed from the observed distribution of respondents;
- Second, when necessary, each respondent’s age group and/or race are imputed from the observed distribution of respondents. Imputation is done separately for males and females;
- Third, if the landline respondent is missing the number of telephones in the household, they are assigned a value of one;
- Likewise, if the cell phone respondent is missing the number of cell phones, they are assigned a value of one;
- Finally, the region associated with a respondent’s telephone number is used as a substitute when a respondent does not provide their county of residence.

Summary of Weighting Adjustments

A weight has been associated with the sample to reflect the likelihood of selecting each respondent and to reduce bias by compensating for differing patterns of nonresponse. The weight used for estimation is given by:

$$\text{FINAL_WT} = w_1/[R_{Sub} \times L_i \times \text{Pr}(r_i)] \times NR_{R2} \times PH \times C \times PS$$

w_1	=	The inverse of the probability of selecting the phone number (base weight)
R_{Sub}	=	Household subsampling rate (Arapahoe and Denver landline only)
L_i	=	Number of telephone lines for landline sample <u>or</u> number of cell phone lines for cell sample
$\text{Pr}(r_i)$	=	Within-household probability of selection (landline-only)
NR_{R2}	=	A non-response adjustment by smoking status and number of respondents selected in the household (landline-only)
PH	=	Ratio adjustment to the estimated size of the phone groups (landline-only, landline-mostly, dual, cell-mostly, cell-only)
C	=	Dual-frame composite weight calculated by phone group
PS	=	Post stratification adjustment calculated by region, age, race, and gender

X. RESPONSE RATES

Below are tables illustrating various response rates for COTABS.

Cell Phone Response Rates

Charity Introduction Response Rates

Table L

Intro	CASRO	Cooperation Rate	Overall Rate	Refusal Rate
1-Got intro with charity offer	32.6	77.0	8.2	2.2
2-Got regular intro	32.8	75.0	8.9	2.5
Overall	32.7	75.9	8.6	2.4

Landline Response Rates

Table M

	Screening RR	1 st Person Coop	2 nd Person Coop	Overall Coop	Household Response Rate RR3	Person Response Rate RR3
Total	50.92	90.59	51.34	85.14	46.13	43.35
Region						
1	52.31	91.32	54.55	86.67	47.77	45.34
2	46.61	93.14	50.00	88.80	43.42	41.39
3	40.89	91.33	47.27	86.74	37.35	35.47
4	45.76	91.33	52.00	86.54	41.79	39.60
5	47.81	94.41	37.93	89.21	45.14	42.65
6	49.36	90.09	52.73	84.86	44.46	41.88
7	46.83	91.98	56.86	87.50	43.08	40.98
8	55.33	91.02	65.22	87.89	50.36	48.63
9	45.86	91.22	51.16	87.42	41.83	40.09
10	48.60	93.40	47.46	87.61	45.40	42.58
11	44.42	88.89	40.00	80.24	39.49	35.64
12	42.55	92.83	45.31	87.02	39.50	37.03
13	47.90	89.91	56.76	85.10	43.07	40.76
14	47.10	88.23	57.14	83.09	41.56	39.14
15	59.59	87.49	53.76	81.07	52.14	48.31
16	50.90	95.48	35.71	90.99	48.60	46.31

	Screening RR	1st Person	2nd Person	Overall	Household Response Rate	Person Response Rate
17	43.51	90.78	50.00	86.16	39.50	37.49
18	43.08	90.98	45.88	84.65	39.19	36.47
19	48.52	91.31	55.00	86.05	44.31	41.76
20	58.41	87.06	53.10	80.81	50.85	47.20
21	46.01	91.94	45.54	86.96	42.30	40.01

Overall Wave						
1	40.85	91.22	50.76	86.14	37.26	35.19
2	52.29	91.14	49.90	85.39	47.66	44.65
3	54.97	89.27	53.80	84.05	49.07	46.20

Caller-ID experiment						
Always off	51.8	91.7	53.3	86.7	47.5	44.9
Started on, turned off	52.3	90.8	49.6	85.1	47.5	44.5
Started off, turned on	52.8	91.0	47.7	84.6	48.0	44.6

APPENDIX A: THE CO TABS QUESTIONNAIRE

SECTION A LL: LANDLINE SCREENER

[Hello, this is {INTERVIEWER NAME} and I'm conducting an important health study for the University of Colorado Denver. Your telephone number has been selected as part of this study.]

RESIDE . Are you a member of this household and at least 18 years old?

[HOUSEHOLDS EXCLUDE PHONES IN DORMITORIES, NURSING HOMES, AND VACATION HOMES (UNLESS PRIMARY RESIDENCE)]

- 01 YES.....
- 02 //GO TO A3// NO
- 03 PROBABLE BUSINESS.....
- 07 //GOTOREADMSG// ANSWERING MACHINE
- 09 //GOTO interviewer disposition screen// termination screen

A2a. Have I reached (PHONENUM)?

- 01 YES
- 02 //GOTOA1RD//NO

A2b. Is this phone number used for ...

(BUSINESS)

[INTERVIEWER, PLEASE PROBE HERE IF SOMEONE ANSWERS "DON'T KNOW OR REFUSE"]

- 04 //GOTO A5// Home use only,
- 05 //GOTO A5// Home and business use, or
- 06 //GOTO THANK01// Business use only?
- 07 //GOTO THANK01// NON-HOME / NON-BUSINESS (VACATION HOMES)

- 98 //GO TO THANK 01 AND TERMINATE// DON'T KNOW
- 99 // GO TO THANK 01 AND TERMINATE// REFUSED

//IF A2B=04,05 GOTO A5//
//IF A2B=06,07 GOTO THANK01//
//IF A2B=98, 99 GO TO THANK 01//

[HOME USE EXCLUDES PHONES IN DORMITORIES, NURSING HOMES, AND VACATION HOMES (UNLESS PRIMARY RESIDENCE)]

[IF ASKED: The study is to collect information and opinions from smokers and non-smokers.]

[INTERVIEWER: PLEASE PROBE HERE IF SOMEONE ANSWERS "DON'T KNOW OR REFUSE"]

A3. May I speak to a household member who is at least 18 years old?

[HOUSEHOLD (HH) MEMBERS INCLUDE PEOPLE WHO THINK OF THIS HH AS THEIR PRIMARY PLACE OF RESIDENCE, IT INCLUDES PERSONS WHO USUALLY STAY IN THE HH BUT ARE TEMPORARILY AWAY ON BUSINESS, VACATION, IN A HOSPITAL, OR LIVING AT SCHOOL IN A DORM, FRATERNITY, OR SORORITY.]

- 01 //CONTINUE//..... AVAILABLE
- 02 // SCHEDULE CALL BACK// NOT AVAILABLE
- 03 //GOTOTHANK02// THERE ARE NONE

A4. Hello, this is {INTERVIEWER NAME} and I'm conducting an important health study for the University of Colorado Denver. Your telephone number has been selected as part of this study. Are you a member of this household and at least 18 years old?

(A4)

- 01 //CONTINUE// YES
- 02 //GOTO A3// NO
- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

//IF A4=97, 98 GIVE INITIAL REFUSAL DISPOSITION

A4a. Have I reached {PHONENUM}?

(A4a)

- 01 YES
- 02 //SKIP TO A1RD// NO

A4b. Is this phone number used for...

(A4b)

- 04 Home use,
- 05 Home and business use, or
- 06 //THANK01// Business use only?
- 07 //THANK 01// NON-HOME / NON-BUSINESS (VACATION HOMES)

- 98 //THANK01// DON'T KNOW
- 99 //THANK01// REFUSED

//IF A4B=06,07, 98, or 99 GOTO THANK01//

A5. This study will interview 12,000 smokers and non-smokers about tobacco use and attitudes in Colorado. While your participation is voluntary, your cooperation is very important to the success of this study. Your answers will be kept strictly confidential and will be used only for this research. You may choose not to answer any question or end the interview at any time. The interview takes about 15 minutes. This call may be recorded for quality control purposes.

(A5)

- 01 CONTINUE
- 02 //SYSTEM-DEFINED: SOMETHING OTHER THAN 105// GENERAL
- 02 //DISPO 104// SPECIFIC CALLBACK
- 99 [//TERMINATE REFUSAL//] REFUSED

- 98 //GOTO TERMINATE DISPO//.... DON'T KNOW

A5L. This interview is offered in English and Spanish. Which do you prefer?

(ENGLISH)

- 01 //GOTO A6A//ENGLISH
- 02 //CONTINUE TO A5M//SPANISH

A5M

(ENG2) IF YOU ARE NOT A SPANISH INTERVIEWER: When would be a good time to have a Spanish speaking interviewer call you back? IF YOU ARE A SPANISH INTERVIEWER, CHANGE THE LANGUAGE TO SPANISH AND CONTINUE.

- 01 CONTINUE.
- 02 //TERM – DEFINITE SPANISH//]GENERAL CALL-BACK
- 03 //TERM USER-DEFINED, SOMETHING OTHER THAN 104//SPECIFIC CALL-BACK
- 98 //TERMINATE REFUSAL//DON'T KNOW...
- 99//TERMINATE REFUSAL// REFUSED... →

A6a. First, I'll need to list each household member 18 years and older so the computer can pick one at random for the interview. Would you like me to list their first names, or only age and gender?

[HOUSEHOLD (HH) MEMBERS ARE PEOPLE WHO THINK OF THIS HH AS THEIR PRIMARY PLACE OF RESIDENCE. IT INCLUDES PEOPLE WHO USUALLY STAY IN THE HH BUT ARE TEMPORARILY AWAY ON BUSINESS, VACATION, IN A HOSPITAL, OR LIVING AT SCHOOL IN A DORM, FRATERNITY, OR SORORITY.]

(NAMLST)

- 01 FIRST NAME OR INITIAL
- 02AGE & GENDER
- 03 //USE FIRST NAMES// EITHER, DOESN'T MATTER
- 99 //USE AGE AND GENDER// REFUSED
- 98 //USE AGE AND GENDER// DON'T KNOW

A6b1. /ACKNOWLEDGE A6a RESPONSE/: Including yourself, what is the /ENTER FIRST NAME OR AGE AND GENDER FROM A6A/ of the oldest person living in the household? What is the {first name,} age and gender of the next oldest person living in the household? The next oldest person living in the household? ... The youngest person who is at least 18 years old living in the household?

[RANGE FOR # LIVING IN HH IS >=1]

[INTERVIEWER IF NEEDED: HOUSEHOLD (HH) MEMBERS ARE PEOPLE WHO THINK OF THIS HH AS THEIR PRIMARY PLACE OF RESIDENCE. IT INCLUDES PEOPLE WHO USUALLY STAY IN THE HH BUT ARE TEMPORARILY AWAY ON BUSINESS, VACATION, IN A HOSPITAL, OR LIVING AT SCHOOL IN A DORM, FRATERNITY, OR SORORITY.]

What is (your/his/her) [F] is he/she)?	(Is this person/ Are you) male first name? or female? [M-]	How old (are you/
1.(P1NAME - 2.P0NAME) 3. 4.	(P1SEX - P0SEX)	(P1AGE- P0AGE)

[INTERVIEWER: SELECT WHATEVER INFORMATION THE RESPONDENT WILL OFFER]

- 01 What is (your/his/her) first name or initial(s)?
- 02 (Is this person/Are you) male or female and how old (are you/is he/she)
- 99 REFUSED

[ASK P1NAME IF A6B=01]

P1NAME
Record Name

[ASK P1SEX IF A6B=02]

P1SEX
01 MALE
02 FEMALE

[ASK PP1AGE IF A6B=03]

PP1AGE

How old (are you/is he/she)?

- 01 ETNER AGE
- 97 REFUSED
- 98 DON'T KNOW

[ASK P1AGE IF PP1AGE=01]

P1AGE
Record age

RENUM1 WAS RESPONDENT REFERRING TO HIM OR HERSELF?

(RENUM1-0)

- 01 YES.....
- 02 NO.....
- 98 DON'T KNOW.....

A6b2-A6b10. /ACKNOWLEDGE A6a RESPONSE/: Including yourself, what is the /ENTER FIRST NAME OR AGE AND GENDER FROM A6A/ of the oldest person living in the household? What is the {first name,} age and gender of the next oldest person living in the household? The next oldest person living in the household? ... The youngest person at least 18 years old living in the household?

[INTERVIEWER: SELECT WHATEVER INFORMATION THE RESPONDENT WILL OFFER]

- 01 What is (your/his/her) first name?
- 02 (Is this person/Are you) male or female?
- 03 [RANGE >18. USE 97 for 97 and OLDER]How old (are you/is he/she)
- 08 THERE ARE NO OTHER PEOPLE IN THIS HOUSEHOLD //SKIP TO A6VER1//

//REPEAT P2NAME/P2SEX/P2AGE/RENUM2 – P10NAME/P10SEX/P10AGE/RENUM10
EACH TIME 01, 02, 03 ARE SELECTED AT A6B//

A6VER1 So the household member (s) at least 18 years old is/are....
SELECT A NUMBER TO EDIT OR PRESS 11 TO ADD/12 TO CONTINUE

- # AGE SEX..... FIRST NAME
[PROGRAMMER: DISPLAY ROSTER] (SKIP <PX NAME> THROUGH <RENUMX>)
- 11 //(SKIP TO PY NAME// ADD ANOTHER HH MEMBER
- 12 //SKIP TO NEXT PROGRAMMER NOTE// DATA CORRECT
- 13 //SKIP TO A6PREM// REMOVE HH MEMBER

A6PREM SELECT A PERSON TO REMOVE

- # AGE SEX FIRST NAME
[PROGRAMMER DISPLAY ROSTER] //SKIP TO <A6RCONF>//

11. RETURN TO <PEDIT> (SKIP TO <PEDIT>)

(A6RCONF) YOU CHOSE TO REMOVE

- AGE SEX FIRST NAME
[PROGRAMMER: DISPLAY ANSWER FROM <A6PREM>]

ARE YOU SURE?

- 01 //PROGRAMMER: REMOVE PERSON FROM ROSTER SKIP TO <PEDIT>// YES
- 02 //SKIP TO <PEDIT>//..... NO

[PROGRAMMER: IF ANSWER TO RENUM IS UNCLEAR, ASK A6WHO. ELSE SKIP TO A6VER2]

WHOENU A6WHO Could you please tell me which person you just listed is you?

(WHOENU) SELECT A NUMBER TO MARK AS R

[PROGRAMMER: DISPLAY ROSTER]

A6VER2. Have we missed anyone else at least 18 years old who usually lives here but is temporarily away? For example, away on business, vacation, in a hospital, or living in student housing?

(A6VERF2)

- 01 //SKIP TO PEDIT//..... YES

02 NO
99 REFUSED
98 DON'T KNOW

ADULTS:

IF P1NAME OR (P1SEX AND P1AGE) ARE NOT BLANK, THEN ADULTS=1
IF P2-P4 ARE NOT BLANK, THEN ADULTS=ADULTS + 1

//IF AGE =98DK OR 97 REF CONTINUE; ELSE SKIP TO A9// (ASK A7 IF P_N_AGE IS DON'T
KNOW/REFUSED)

IF P_N_NAME AND P_N_SEX AND P_N_AGE ARE BLANK, SKIP TO A6VERF2

ASK IF P_N_NAME OR (P_N_SEX AND P_N_AGE) ARE NOT BLANK

A38. How many children less than 18 years of age live in your household?

NUMBER OF CHILDREN → [IF ZERO, SKIP TO A9]

01 GAVE RESPONSE
99 REFUSED.....
98 DON'T KNOW/NOT SURE

A38a. How many of these children are age 12 to 17 years old?

NUMBER OF CHILDREN

01 GAVE RESPONSE

99 REFUSED.....
98 DON'T KNOW/NOT SURE

The next set of questions are about the smoking pattern of people in this household.

A9. [As far as you know], {have you/has [NAME/Age-Gender]} smoked at least 100 cigarettes during
{your/his/her} entire life?

(P?CIGS)

01 YES.....
02 NO.....
99 REFUSED.....
98 DON'T KNOW/NOT SURE

//IF A9=1 CONTINUE; ELSE SKIP TO A13//

A10. [As far as you know], {do you/does he/she} smoke cigarettes every day, some days, or not at all?

(P?DAILY)

01 EVERY DAY.....
02 SOME DAYS.....
03 NOT AT ALL

99 REFUSED.....
98 DON'T KNOW/NOT SURE

//IF A10=03 CONTINUE; ELSE SKIP TO A13//

A11. [As far as you know], {have you/has he/she} smoked cigarettes any time in the last two and a half years, that
is, since January of 2006?

(P?MNTH)

01 YES.....

- 02 NO.....
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

My next few questions are about the background of the people in this household.

A13. Which one of the following categories best describes {you/NAME/AGE-GENDER}? {Are/Is} {you/he/she}

...
(P?RACE)

- 01 Hispanic or Latino,.....
- 02 White,.....
- 03 Black, African American,
- 04 Asian,
- 05 Native Hawaiian, other Pacific Islander,.....
- 06 American Indian, or Alaska Native?

- 95 OTHER (Specify: _____).....
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

A13oth.

ENTER RESPONSE _____

A20. What county do you live in?

(CNTY)

[IF ASKED: We are interested in looking at the study results by geographic area].

___ COUNTY CODE

001 GAVE RESPONSE

995 OTHER

(SPECIFY: _____)

999 REFUSED.....

998 DON'T KNOW/NOT SURE

- | CNTY | COUNTY |
|------|-------------|
| 1 | ADAMS |
| 2 | ALAMOSA |
| 3 | ARAPAHOE |
| 4 | ARCHULETA |
| 5 | BACA |
| 6 | BENT |
| 7 | BOULDER |
| 8 | CHAFFEE |
| 9 | CHEYENNE |
| 10 | CLEAR CREEK |
| 11 | CONEJOS |
| 12 | COSTILLA |
| 13 | CROWLEY |
| 14 | CUSTER |
| 15 | DELTA |
| 16 | DENVER |
| 17 | DOLORES |

- 18 DOUGLAS
- 19 EAGLE
- 20 ELBERT
- 21 EL PASO
- 22 FREMONT
- 23 GARFIELD
- 24 GILPIN
- 25 GRAND
- 26 GUNNISON
- 27 HINSDALE
- 28 HUERFANO
- 29 JACKSON
- 30 JEFFERSON
- 31 KIOWA
- 32 KIT CARSON
- 33 LAKE
- 34 LA PLATA
- 35 LARIMER
- 36 LAS ANIMAS
- 37 LINCOLN
- 38 LOGAN
- 39 MESA
- 40 MINERAL
- 41 MOFFAT
- 42 MONTEZUMA
- 43 MONTROSE
- 44 MORGAN
- 45 OTERO
- 46 OURAY
- 47 PARK
- 48 PHILLIPS
- 49 PITKIN
- 50 PROWERS
- 51 PUEBLO
- 52 RIO BLANCO
- 53 RIO GRANDE
- 54 ROUTT
- 55 SAGUACHE
- 56 SAN JUAN
- 57 SAN MIGUEL
- 58 SEDGWICK
- 59 SUMMIT
- 60 TELLER
- 61 WASHINGTON
- 62 WELD
- 63 YUMA
- 64 BROOMFIELD

A20oth.

ENTER RESPONSE _____

A21. What city do you live in?

(CTYLST)

[IF ASKED: We are interested in looking at the study results by geographic area].

CITY CODE||_|_|
001 GAVE RESPONSE

995 OTHER
(SPECIFY: _____)

900 DON'T LIVE IN A CITY

999 REFUSED

998 DON'T KNOW/NOT SURE

City name	CITY
Aguilar	001
Akron	002
Alamosa	003
Alma	004
Antonito	005
Arriba	006
Arvada	007
Aspen	008
Ault	009
Aurora	010
Avon	011
Bailey	012
Basalt	013
Bayfield	014
Bellvue	015
Bennett	016
Berthoud	017
Bethune	018
Beulah	019
Black Hawk	020
Blanca	021
Blue River	022
Bonanza City	023
Boone	024
Boulder	025
Bow Mar	026
Branson	027
Breckenridge	028
Brighton	029
Brookside	030
Broomfield	031
Brush	032
Buena Vista	033
Burlington	034
Byers	035

Calhan	036
Campo	037
Canon City	038
Carbondale	039
Castle Rock	040
Cedaredge	041
Centennial	042
Center	043
Central City	044
Cheraw	045
Cherry Hills Village	046
Cheyenne Wells	047
Clifton	48
Coal Creek	49
Cokedale	50
Collbran	51
Colorado City	52
Colorado Springs	53
Columbine Valley	54
Commerce City	55
Conifer	56
Cortez	57
Craig	58
Crawford	59
Creede	60
Crested Butte	61
Crestone	62
Cripple Creek	63
Crook	64
Crowley	65
Dacono	66
De Beque	67
Deer Trail	68
Del Norte	69
Delta	70
Denver	71
Dillon	72
Dinosaur	73
Divide	74
Dolores	75
Dove Creek	76
Durango	77
Eads	78
Eagle	79
Eaton	80
Eckley	81
Edgewater	82
Edwards	83
Elizabeth	84
Empire	85

Englewood	86
Erie	87
Estes Park	88
Evans	89
Evergreen	90
Fairplay	91
Federal Heights	92
Firestone	93
Flagler	94
Fleming	95
Florence	96
Florissant	97
Fort Collins	98
Fort Garland	99
Fort Lupton	100
Fort Morgan	101
Fountain	102
Fowler	103
Foxfield	104
Franktown	105
Fraser	106
Frederick	107
Frisco	108
Fruita	109
Garden City	110
Genoa	111
Georgetown	112
Gilcrest	113
Glendale	114
Glenwood Springs	115
Golden	116
Granada	117
Granby	118
Grand Junction	119
Grand Lake	120
Greeley	121
Green Mountain Falls	122
Greenwood Village	123
Grover	124
Gunnison	125
Gypsum	126
Hartman	127
Haswell	128
Haxtun	129
Hayden	130
Henderson	131
Highlands Ranch	132
Hillrose	133
Holly	134
Holyoke	135

Hooper	136
Hot Sulphur Springs	137
Hotchkiss	138
Hudson	139
Hugo	140
Idaho Springs	141
Ignacio	142
Iliff	143
Jamestown	144
Johnstown	145
Julesburg	146
Karval	147
Keenesburg	148
Kersey	149
Kim	150
Kiowa	151
Kit Carson	152
Kremmling	153
La Jara	154
La Junta	155
La Salle	156
La Veta	157
Lafayette	158
Lake City	159
Lakeside	160
Lakewood	161
Lamar	162
Larkspur	163
Las Animas	164
Leadville	165
Limon	166
Littleton	167
Lochbuie	168
Log Lane Village	169
Loma	170
Lone Tree	171
Longmont	172
Louisville	173
Loveland	174
Lyons	175
Manassa	176
Mancos	177
Manitou Springs	178
Manzanola	179
Marble	180
Mead	181
Meeker	182
Merino	183
Milliken	184
Minturn	185

Moffat	186
Monte Vista	187
Montezuma	188
Montrose	189
Monument	190
Morrison	191
Mount Crested Butte	192
Mountain View	193
Mountain Village	194
Nathrop	195
Naturita	196
Nederland	197
New Castle	198
Northglenn	199
Norwood	200
Nucla	201
Nunn	202
Oak Creek	203
Olathe	204
Olney Springs	205
Ophir	206
Orchard City	207
Ordway	208
Otis	209
Ouray	210
Ovid	211
Pagosa Springs	212
Palisade	213
Palmer Lake	214
Paoli	215
Paonia	216
Parachute	217
Parker	218
Peetz	219
Penrose	220
Peyton	221
Pierce	222
Pine	223
Pitkin	224
Platteville	225
Poncha Springs	226
Pritchett	227
Pueblo	228
Pueblo West	229
Ramah	230
Rangely	231
Raymer	232
Red Cliff	233
Redvale	234
Rico	235

Ridgway	236
Rifle	237
Rockvale	238
Rocky Ford	239
Romeo	240
Rye	241
Saguache	242
Salida	243
San Luis	244
Sanford	245
Sawpit	246
Sedalia	247
Sedgwick	248
Seibert	249
Severance	250
Sheridan	251
Sheridan Lake	252
Silt	253
Silver Cliff	254
Silver Plume	255
Silverthorne	256
Silverton	257
Simla	258
Snowmass Village	259
South Fork	260
Springfield	261
Starkville	262
Steamboat Springs	263
Sterling	264
Strasburg	265
Stratton	266
Sugar City	267
Superior	268
Swink	269
Tabernash	270
Telluride	271
Thornton	272
Timnath	273
Trinidad	274
Two Buttes	275
Vail	276
Victor	277
Vilas	278
Vona	279
Walden	280
Walsenburg	281
Walsh	282
Ward	283
Wellington	284
Westcliffe	285

Westminster	286
Weston	287
Wheat Ridge	288
Wiggins	289
Wiley	290
Williamsburg	291
Windsor	292
Winter Park	293
Woodland Park	294
Wray	295
Yampa	296
Yuma	297
do not live in city/not w/in city limit	900

A21oth.

ENTER RESPONSE _____

A23. During the past 12 months, was the total combined income of all members of this household ...
(INCA-INCH) [IF NECESSARY PROBE: Include income from all sources such as: salaries and wages; social security and public assistance; dividends, interest or rent; unemployment and worker's compensation; pensions.]

	YES	NO	
(INCA) a. less than \$25,000?	01	02	→ [SKIP TO A23e]
(INCB) b. less than \$20,000?	01	02 } [SKIP TO A25]	
(INCC) c. less than \$15,000?	01		
(INCD) d. less than \$10,000?	01		

//For this section, once the person answers 01, 'YES' they should get skipped to A25//

	YES	NO	
(INCE) e. less than \$35,000?	01	02	
(INCF) f. less than \$50,000?	01		02
(INCG) g. less than \$75,000?	01	02	
(INCH) h. more than \$75,000?	01	02	

99 REFUSED.....
 98 DON'T KNOW/NOT SURE

A25. Do you have more than one telephone number in your household? Do not include cell phones or numbers that are used only by a computer or fax machine.

(ADDPHON)
 01 YES.....
 02 NO.....
 97 REFUSED.....
 98 DON'T KNOW/NOT SURE

//IF A25=01 CONTINUE; ELSE SKIP TO A27//

A26. How many of these are residential numbers?

[6=6 OR MORE]
NUMBER OF NUMBERS _____ **(range=1-6)**

A27. During the past 12 months, has your household been without telephone service for 1 week or more?
(NOPHONE)

[DO NOT INCLUDE INTERRUPTIONS OF TELEPHONE SERVICE BECAUSE OF WEATHER OR NATURAL DISASTERS]

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

A27b. In addition to your residential landline telephone, do you also use one or more cell phone numbers? Do not include cell phones that are used only for business.

- 01 YES (DUAL-USER)
- 02 NO //END SCREENER, GO TO SELECTION//
(LANDLINE ONLY)

- 99REFUSED
- 98DON'T KNOW/NOT SURE

A27c. How many? [IF NEEDED: Cell phones do you use.] Again, do not include cell phones that are used only for business.

[6=6 OR MORE]
NUMBER OF PHONES _____

A27d. Of all the telephone calls that you receive, are ...

[READ LIST]

- 01 All or almost all calls received on a cell phone? Or...
- 02 Some received on a cell phone and some on a regular landline phone? Or..
- 03 Very few or none received on a cell phone?

[DO NOT READ]

- 87 Don't have a regular landline phone (CELL ONLY)
- 88 Don't have a cell phone (LANDLINE ONLY)
- 89 Don't have any phone (NO PHONE)

- 98 DON'T KNOW
- 99 REFUSED

How selection process works:

2 Max stage selection process

1st stage randomly selects any 1 adult (18 or older) in HH.

2nd stage only kicks in if 1 or more ADULT current smoker is left who hasn't been selected in stage 1.

Stage 2 randomly selects 1 smoker from current smokers left.

Definition of "current smoker" for selection process:

Anybody who has smoked at least 100 cigs in their life AND currently smokes or who has smoked since the last survey: (A9=Yes) AND ((A10 everyday/01) OR some days/02)

OR A11=YES/01 (since Jan. 2006)//

[SELECTION TEXT]

IF ONLY THE ENUMERATOR HAS BEEN CHOSEN TO DO THE INTERVIEW OR IF THE HOUSEHOLD IS A ONE-PERSON HOUSEHOLD, READ: You have been selected to answer more detailed questions about tobacco use and attitudes in Colorado.

IF ONLY ONE PERSON FROM THE HOUSEHOLD WHO IS NOT THE ENUMERATOR HAS BEEN CHOSEN TO DO THE INTERVIEW, READ: _____ person, the _____ year-old, has been selected to answer more detailed questions about tobacco use and attitudes in Colorado.

IF THE ENUMERATOR AND ANOTHER PERSON IN THE HOUSEHOLD HAVE BEEN CHOSEN TO DO THE INTERVIEW, READ: You and _____ person, the _____ year-old, have been selected to answer more detailed questions about tobacco use and attitudes in Colorado.

IF TWO HOUSEHOLD MEMBERS WHO ARE NOT THE ENUMERATOR HAVE BEEN CHOSEN TO DO THE INTERVIEW, READ: _____ person, the _____ year-old and _____ person, the _____ year-old, have been selected to answer more detailed questions about tobacco use and attitudes in Colorado.

TERMINATIONS:

READMSG [PLEASE READ THE FOLLOWING MESSAGE INTO THE ANSWERING MACHINE]

[This is {INTERVIEWER'S NAME} conducting an important health study for the University of Colorado Denver. This study will interview 12,000 smokers and non-smokers about tobacco use and attitudes in Colorado.

Your participation is extremely important. Please call us toll free at 877-363-8822 to complete a brief interview, or arrange a convenient time for us to contact you. Thank you.]

THANK01 Thank you, but we are only interviewing in private residences.

A1RD. Thank you very much, but I seem to have dialed the wrong number.

(A1RD2)

REDIAL..... RT → (DIAL SCREEN)
NON-WORKING NUMBER
(IF NUMBER HAS BEEN
DIALED TWICE).....NW

THANK02 Thank you very much. Those are all the questions I have at this time.

SECTION A CELL: CELL PHONE SCREENER

INTRO_CELL

[Hello, I'm calling from the University of Colorado, and we're conducting an important state health survey. Your telephone number was randomly chosen for a short interview, and you will receive a \$10 Amazon.com® gift certificate [PROGRAMMING 50% OF RESPONDENTS SHOULD ALSO BE READ "or you can choose to have \$10 donated to The Cancer League of Colorado"] as a thank you after we're done. I just have a few questions to see if you are eligible for the study.] This call may be recorded for quality control purposes.

01 Continue.....
02 Terminate.....
03 Callback.....
04 Answering machine.....
05 Hang up before intro.....

CA30. Are you on a cellular telephone? [IF NEEDED, BY CELLULAR TELEPHONE WE MEAN A TELEPHONE THAT IS MOBILE AND USABLE OUTSIDE OF YOUR NEIGHBORHOOD.]

01 YES
02 // THANK00//NO
99 // THANK02// REFUSED
98 // THANK02// DON'T KNOW/NOT SURE

CA30b. Your safety is important. Are you driving in a car, walking down the street, in a public place or other location where talking on the phone might distract you or jeopardize your safety and/or confidentiality?

01 YES
02 //GO TO CA28a//NO
99 // Schedule Callback//REFUSED

CA30a. I would like to call you at a more convenient time. What day and time would be best? [INTERVIEWER: set up call-back].

- 01Schedule callback
- 99 //TERMINATE//REFUSED

CA28a. Are you at least 18 years old and a Colorado resident?

- 01 //GO TO CA28C// YES
- 02 //GO TO CA28C//NO
- 99 //GO TO THANK02// REFUSED
- 98 // THANK02// DON'T KNOW/NOT SURE

CA28c. Does anyone else receive calls on this phone?

- 01 YES
- 02 //GO TO CA4b// NO

//IF CA28a=2 "NO" and CA28C=01 "YES" GO TO CA28b. IF CA28A=01 AND CA28C=01, GO TO CA28D. IF CA28a=02 AND CA28C=02, THEN TERMINATE//.

CA28b. May I speak to someone who is 18 years or older who receives calls on this cell phone?

- 01 //SKIP back to beginning of script// AVAILABLE
- 02 //schedule callback// NOT AVAILABLE
- 03 //THANK02// THERE ARE NONE

CA28d Just in case the call is dropped can I get your first name or initials, so I can make sure to ask for the right person when I call back?

- 01 //GO TO ENTER NAME// Gave first name
- 02 //GO TO ENTER INITIALS/ Gave Initials
- 99//GO TO CA4b// Refuse

//ENTER NAME//

_____ [INTERVIEWER VERIFY NAME]

//GO TO A4b//

//ENTER INITIALS

_____ [INTERVIEWER VERIFY INITIALS]

//GO TO A4b//

CA4b. Is this phone number used for...

(A4b)

- 04Home use,
- 05Home and business use, or
- 06 //GO TO THANK01//Business use only?

98 DONT KNOW //GO TO THANK01//

99 REFUSE //GO TO THANK01//

CA5. This study will interview 12,000 smokers and non-smokers about tobacco use and attitudes in Colorado. While your participation is voluntary, your cooperation is very important to the success of this study. Your answers will be kept strictly confidential and will be used only for this research. You may choose not to answer any question or end the interview at any time. The interview takes about 15 minutes, and you will receive a \$10 Amazon.com® gift certificate [PROGRAMMING 50% OF RESPONDENTS SHOULD ALSO BE READ "or you can choose to have \$10 donated to The Cancer League of Colorado""] after completing the interview.. This call may be recorded for quality control purposes.

(A5)

01 CONTINUE
 02 GENERAL CALLBACK.....
 03 SPECIFIC CALLBACK

 99 REFUSED.....
 98 DON'T KNOW.....

CA5L. This interview is offered in English and Spanish. Which do you prefer?
(ENGLISH)

01ENGLISH
 02 //GO TO A5M // SPANISH..

CA5M

(ENG2) IF YOU ARE NOT A SPANISH INTERVIEWER: When would be a good time to have a Spanish speaking interviewer call you back? IF YOU ARE A SPANISH INTERVIEWER, CHANGE THE LANGUAGE TO SPANISH AND CONTINUE.

01 CONTINUE
 02 GENERAL CALLBACK.....
 03 SPECIFIC CALLBACK.....

CA33. What is your age?

AGE IN YEARS..... [] [] [] [] → IF LESS THAN 18, TERMINATE WITH
 THANK02

01 GAVE AGE
 99 REFUSED.....
 98 DON'T KNOW/NOT SURE

//USE 97 TO FOR AGE 97 or OLDER//

[IF LESS THAN 18, PLEASE VERIFY THAT THIS AGE IS CORRECT AND THE RESPONDENT IS NOT 18 YEARS OR OLDER BEFORE TERMINATING]

[SKIP TO A34 EXCEPT FOR IF AGE IS UNKNOWN OR REFUSED.]

CA7. Are you between ages . . .
(P?AGE2)

01 // GO TO A7 VERIF// 0-11 years,
 02 //GO TO A7 VERIF// 12-14 years,
 03 //GO TO A7 VERIF// 15-17 years,
 04 // SKIP TO A34// 18-24 years,
 05 // SKIP TO A34// 25-29 years,
 06 // SKIP TO A34// 30-44 years,
 07 // SKIP TO A34// 45-55 years,
 08 // SKIP TO A34// 56-64 years,
 09 // SKIP TO A34// 65 years or older?

99 REFUSED.....
 98 DON'T KNOW/NOT SURE

//IF CA7=01, 02, OR 03, GO TO CA7 VERIF. IF CA7=04, 05, 06, 07, 08, OR 09, SKIP TO CA34//

//ASK IF CA7= 01, 02, OR 03//

CA7VERIF_cell

I just want to make sure I heard you correctly....

You said you are between the ages of //INSERT RESPONSE FROM A7//

01 //TERMINATE// YES, CORRECT
 02 //GO BACK TO CA7// NO, INCORRECT

CA8. Are you between ages . . .
(P?AGE3)

- 01 //GO TO CA8 VERIF//0-11 years?
- 02 //GO TO CA8 VERIF//12-17 years?
- 0318 years or older?

- 99REFUSED
- 98DK/NOT SURE

//IF CA8= 01 OR 02, GO TO CA8 VERIF. IF CA8= 03, GO TO CA34//

//ASK IF CA8= 01, OR 02, //

CA8 VERIF

I just want to make sure I heard you correctly . . .

You said you are between the ages of //INSERT RESPONSE FROM CA8//

- 01 //TERMINATE//YES, CORRECT
- 02 //GO BACK TO CA8//NO, INCORRECT

CA34. Are you male or female? [ONLY ASK IF NOT APPARENT]

- 01 Male
- 02 Female.....
- 99 REFUSED.....
- 98 DK/NOT SURE

CA13. Which one of the following categories best describes you:

(P?RACE)

- 01 Hispanic or Latino,.....
- 02 White,.....
- 03 Black, African American,
- 04 Asian,
- 05 Native Hawaiian, other Pacific Islander,.....
- 06 American Indian, or Alaska Native?
- 95 OTHER (Specify: _____).....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

CA13oth.

ENTER RESPONSE _____

The next set of questions are about people who live in your household. [IF NECESSARY, HOUSEHOLD (HH) INCLUDES PERSONS WHO USUALLY STAY IN THE HH BUT ARE TEMPORARILY AWAY ON BUSINESS, VACATION, IN A HOSPITAL, OR LIVING AT SCHOOL IN A DORM, FRATERNITY, OR SORORITY]

CA35. Not including yourself, how many other adults age 18 and older live in your household?

//USE "97" TO CODE 97 OR MORE ADULTS//

- NUMBER OF ADULTS [] [] [] → IF '0' SKIP TO A38
- 99 REFUSED.....[skip to ca38]
- 98 DON'T KNOW/NOT SURE[skip to ca38]

CA36. As far as you know, how many of the [insert answer from A35] other adults who

live in your household have ever smoked at least 100 cigarettes during their entire life? [IF NECESSARY, 'NOT INCLUDING YOURSELF']

//USE "97" TO CODE 97 OR MORE ADULTS//

- NUMBER OF ADULTS [] [] [] → IF '0' SKIP TO A38

99 REFUSED.....
98 DON'T KNOW/NOT SURE

CA37. As far as you know, how many of the [insert answer from A36] adults in your household who have smoked at least 100 cigarettes in their lifetime smoke cigarettes every day or some days? [IF NECESSARY, 'NOT INCLUDING YOURSELF']

//USE "97" TO CODE 97 OR MORE ADULTS//

NUMBER who smoke every day or
some days..... [] [] []
99 REFUSED.....
98 DON'T KNOW/NOT SURE

CA38. How many children less than 18 years of age live in your household?

//USE "97" TO CODE 97 OR MORE CHILDREN//

NUMBER OF CHILDREN [] [] [] → [IF ZERO, SKIP TO A20]
99 REFUSED.....
98 DON'T KNOW/NOT SURE

CA38a. How many of these children are age 12 to 17 years old?

//USE "97" TO CODE 97 OR MORE CHILDREN//

NUMBER OF CHILDREN [] [] []
99 REFUSED.....
98 DON'T KNOW/NOT SURE

[My next few questions are about your background.]

CA20. What county do you live in?

(CNTY)

[IF ASKED: We are interested in looking at the study results by geographic area].

COUNTY CODE [] [] []
[USE LL COUNTY CODE LIST]
OTHER 995
(SPECIFY: _____)
001 GAVE RESPONSE
999 REFUSED.....
998 DON'T KNOW/NOT SURE

CA21oth.

ENTER RESPONSE _____

CA21. What city do you live in?

(CTYLST)

[IF ASKED: We are interested in looking at the study results by geographic area].

CITY CODE [] [] []
[USE LL CITY CODE LIST]
DON'T LIVE IN A CITY 900
OTHER 995
(SPECIFY: _____)
001 GAVE RESPONSE
999 REFUSED.....
998 DON'T KNOW/NOT SURE

CA21oth.

ENTER RESPONSE _____

CA23. During the past 12 months, was the total combined income of all members of your household ...
(INCA-INCH) [IF NECESSARY PROBE: Include income from all sources such as: salaries and wages; social security and public assistance; dividends, interest or rent; unemployment and worker's compensation; pensions.]

		YES	NO	
C(INCA)	a. less than \$25,000?	1	02	→ [SKIP TO CA23e]
C(INCB)	b. less than \$20,000?.....	1	02 02 02	[SKIP TO CA27c]
C(INCC)	c. less than \$15,000?.....	1		
C(INCD)	d. less than \$10,000?.....	1		

		YES	NO	
(CINCE)	e. less than \$35,000?	1	02	
C(INCF)	f. less than \$50,000?	1		02
C(INCG)	g. less than \$75,000?.....	1	02	
C(INCH)	h. more than \$75,000?	1	02	

99 REFUSED.....
 98 DON'T KNOW/NOT SURE

[My next few questions are about your telephone use.]

CA27c. How many cell phones do you use? Do not include cell phones that are used only for business.

[6=6 OR MORE]
 NUMBER OF PHONES _____

CA31. In addition to your cell phone, does your home have at least one telephone that is currently working and is not a cell phone? Do not include telephones that are used only by a computer or fax machine.

[DO NOT READ]

01 YES (DUAL-USER).....
 02NO (CELL ONLY)..... [SKIP TO CA27]
 99REFUSED (UNCLASSIFIED).....7→ [SKIP TO CA27]
 98 DON'T KNOW (CELL ONLY)...8→ [SKIP TO CA27]

CA31b. How many? [IF NEEDED: of these telephone lines are inside your home, again not counting lines used only by a computer or fax machine.]

NUMBER OF TELEPHONE LINES [6 = 6 or more]
 99REFUSED.....
 98DON'T KNOW/NOT SURE

CA32. Of all the telephone calls that you receive, would you say...

all or almost all calls are received on a cell phone;.....	01
some are received on a cell phone and some on a regular landline phone; or.....	02
very few or none are received on a cell phone?	03
DON'T HAVE A REGULAR LANDLINE PHONE (CELL ONLY).....	04
DON'T HAVE A CELL PHONE (LANDLINE ONLY)	05
DON'T HAVE ANY PHONE (NO PHONE).....	06
REFUSED.....	99
DON'T KNOW/NOT SURE	98

CA27. During the past 12 months, has your household been without telephone service for 1 week or more?

(NOPHONE)

[DO NOT INCLUDE INTERRUPTIONS OF TELEPHONE SERVICE BECAUSE OF WEATHER OR NATURAL DISASTERS]

01 YES.....
 02 NO.....

99 REFUSED.....
 98 DON'T KNOW/NOT SURE

//GO TO SECTION B//

TERMINATIONS:

READMSG [PLEASE READ THE FOLLOWING MESSAGE INTO THE ANSWERING MACHINE]

[This is {INTERVIEWER'S NAME} conducting an important health study for the University of Colorado Denver. This study will interview 12,000 smokers and non-smokers about tobacco use and attitudes in Colorado.

Your participation is extremely important. Please call us toll free at 877-363-8822 to complete a brief interview, or arrange a convenient time for us to contact you. Thank you.]

CTHANK01 Thank you, but we are only interviewing personal phones.

CA1RD. Thank you very much, but I seem to have dialed the wrong number.
(A1RD2)

REDIAL..... RT → (DIAL SCREEN)
 NON-WORKING NUMBER
 (IF NUMBER HAS BEEN
 DIALED TWICE).....NW

CTHANK02 Thank you very much. Those are all the questions I have at this time.

CTHANK00 Thank you very much. We are only interviewing cell telephones at this time

SECTION B: CURRENT SMOKING STATUS

SMOKING STATUS					
<i>DEFINITION BOX</i>					
Questions	RESPONSES				
B1. Smoke 100 cigs in life?	YES				NO
B7. Smoke every day, some days, or not at all?	every day	some days	not at all		
B9. Smoke <u>any</u> cigs in last 30 days?			yes	No, OR DK OR REF.	
B28 first, then B28a and B28b if no answer to B28. to define: How long since smoked?			less than 1 year OR IF UNABLE TO COMPUTE how long since last smoked (IF DK/REF to B28b)	1 year or longer	
SMOKING STATUS	Daily	Nondaily	Recent Former	Established For mer	Nonsmoker

B1. Have you smoked at least 100 cigarettes in your entire life?
(CIGS100)

- 01 //SKIP TO B7//..... YES
- 02 NO
- 03 //PROGRAMMING DO NOT INCLUDE IN RESPONSE LIST. AUTOCODE FROM B2.
GO TO B7//YES BECAUSE B2=100

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

//IF B1=01 OR 03 SKIP TO B7; ELSE CONTINUE//

B2. What would you say is the total number of cigarettes that you have ever smoked?
(TOTLEVER)

- [100 = 100 OR MORE CIGARETTES]
- //Range = 001-100//
- NUMBER OF CIGARETTES
- →

//SKIP TO D IF <100//.....

- 000 //SKIP TO E// NONE
- 999 REFUSED.....
- 998 DON'T KNOW/NOT SURE

//B2= '000' "NONE" or 999 "REFUSED" or 998 "DON'T KNOW", SKIP to E. IF response to B2=1-99, SKIP to D. If B2=100, continue to B7//

B7. Do you now smoke cigarettes every day, some days or not at all?
(DAILY)

- 01 //GO TO B18//EVERY DAY
- 02 //GO TO B10//SOME DAYS
- 03 NOT AT ALL

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE /

//IF B7=01 SKIP TO B18// //IF B7=02 SKIP TO B10//ELSE CONTINUE//

B9. Did you smoke any cigarettes during the past 30 days?
(PAST30)

[IF NEEDED: When people say they now smoke "not at all," I'm still supposed to ask whether they smoked any cigarettes during the past 30 days.]

- 01 YES
- 02 //SKIP TO B28//NO
- 99 //SKIP TO B28// REFUSED
- 98 //SKIP TO B28// DON'T KNOW/NOT SURE

//IF B9=01 CONTINUE. ELSE SKIP TO B28//

B10. On how many of the past 30 days did you smoke cigarettes?
(NUMDYS)

- //RANGE=00-30//
- __ NUMBER OF DAYS.....□□

99 REFUSED.....
98 DON'T KNOW/NOT SURE

B11. During the past 30 days, on the days that you did smoke, about how many cigarettes a day did you usually smoke?

(PERDAY)

[100 = 100 OR MORE CIGARETTES]

//RANGE=000-100//

___ NUMBER OF CIGARETTES|_|_|

999 REFUSED.....
998 DON'T KNOW/NOT SURE

B16. Have you ever smoked daily for 6 months or more?

(SMOK6MOS)

01 YES
02 //SKIP TO B20// NO

99 //SKIP TO B20// REFUSED
98 //SKIP TO B20// DON'T KNOW/NOT SURE

//IF B16=01 CONTINUE. ELSE SKIP TO B20//

B17. How long has it been since you smoked on a daily basis?

(LASTDLY) (LASTUNI1)

NUMBER |_|_|_|
UNIT |_|

01 DAYS
02 WEEKS
03 MONTHS
04 YEARS

999 REFUSED.....
998 DON'T KNOW/NOT SURE

} [SKIP TO B20]

//IF RESPONSE TO B17 IS PRESENT, SKIP TO B20//

//IF B7=01, ASK B18 AND B19//

B18. How many cigarettes on average do you smoke per day?

(SMKPERDY)

[100 = 100 OR MORE CIGARETTES]

//RANGE=000-100//

___ NUMBER OF CIGARETTES .. |_|_|_|

999 REFUSED.....
998 DON'T KNOW/NOT SURE

B19. How soon after you awake in the morning do you usually smoke your first cigarette?

(MORNNUM) (MORNUNIT)

[000 = IMMEDIATELY]

NUMBER |_|_|_|
UNIT |_|

000 IMMEDIATELY
01 MINUTES

02 HOURS

999 REFUSED.....
 998 DON'T KNOW/NOT SURE

B20. Are you worried about how much money you spend on cigarettes?
 (SMKSPEND)

01 YES
 02 NO
 03 //GO TO B21// NEVER PURCHASE CIGARETTES

 99 REFUSED.....
 98 DON'T KNOW/NOT SURE

//IF B20=03 SKIP TO B21. ELSE CONTINUE//

B20a. Has the price of cigarettes influenced ...

		<u>YES</u>	<u>NO</u>	<u>R</u>	<u>DK</u>
(MUCHSMK)	a. How much you smoke?.....	01	02	99	98
(WHERBUY)	b. Where you buy cigarettes?.....	01	02	9	98
(BRNDBUY)	c. The brand you smoke?.....	01	02	9	98
(DESRQUIT)	d. Your desire to quit?.....	01	02	9	98

01 YES.....
 02 NO.....
 99 REFUSED.....
 98 DON'T KNOW/NOT SURE

B21b. Do you usually buy cigarettes by the carton or by the pack, or do you roll your own?
 (CIGCARTN)

01 //GO TO B21c//.....CARTON
 02 //GO TO B21d//PACK
 03 //GO TO B21//ROLL OWN
 04 //GO TO B21//DON'T BUY THEM / BUM
 FROM OTHERS
 05PACK AND CARTON EQUALLY

 06PACK/CARTON/ROLL OWN
 95OTHER:
 99REFUSED
 98DON'T KNOW/NOT SURE

B21b oth.

ENTER RESPONSE _____

//IF B21B=02 SKIP TO B21D//
 //IF B21B=03,04 SKIP TO B21//
 ELSE CONTINUE TO B21C

B21c. How much do you usually pay for a carton of cigarettes?
 (PAYCARTN)

\$ |__| |__| . |__| |__|

999 REFUSED..... - [SKIP TO B21e]
 998 DON'T KNOW/NOT SURE

//IF B21B=05,06, 95, 98, 99 CONTINUE, IF B21B=01 SKIP TO B21E//

B21d. How much do you usually pay for a pack of cigarettes?
(PAYPACK)

\$ |__|__| . |__|__|
999 REFUSED.....
998 DON'T KNOW/NOT SURE

B21e. Do you usually buy your cigarettes in Colorado, out of state, or over the Internet?
(BUYCOLO)

01 IN COLORADO
02 OUT OF STATE.....
03 OVER THE INTERNET.....

99 REFUSED.....
98 DON'T KNOW/NOT SURE

B30. About how often do you see promotional offers such as “dollar-off”, or “two-packs-for-the-price-of-one”?
Would you say...
(SEEOFFER)

01 once a week,.....
02 once a month,.....
03 once every several months,.....
04 twice a year, or.....
05 once a year or less?.....

[Don't Read]
06 NEVER
99 REFUSED.....
98 DON'T KNOW/NOT SURE

B31. About how often do you take advantage of promotional offers such as “dollar-off”, or “two-packs-for-the-price-of-one”? Would you say...
(TAKEOFFER)

01 never,.....
02 sometimes,.....
03 often,.....
04 or, every time you see one?.....

99 REFUSED.....
98 DON'T KNOW/NOT SURE

B21ee. What type of store do you usually buy your cigarettes from? Do you buy them
(WHEREBUY)

DO NOT READ

01 from convenience stores or gas stations,.....
02 from supermarkets or grocery stores,.....
03 from liquor stores or drug stores,.....
04 from tobacco discount stores,.....
05 from other discount stores such as Wal-Mart,.....
06 on Indian reservations, or.....
07 in military commissaries?.....
95 OTHER:.....

99 REFUSED.....
98 DON'T KNOW/NOT SURE

B21ee oth.

ENTER RESPONSE _____

B21. What brand do you usually smoke?
(SMKBRAND)

- 01 BENSON & HEDGES.....
- 02 CAMEL.....
- 03 CARLTON.....
- 04 GENERIC.....
- 05 KENT.....
- 06 KOOL.....
- 07 MARLBORO.....
- 08 MERIT.....
- 09 MORE.....
- 10 NEWPORT.....
- 11 PALL MALL.....
- 12 SALEM.....
- 13 VANTAGE.....
- 14 VIRGINIA SLIMS.....
- 15 WINSTON.....
- 16 PARLIAMENTS.....
- 17 CAPRI.....
- 18 LIGGITT GROUP.....
- 19 AMERICAN SPIRIT.....
- 20 SUNDANCE.....
- 22 BASIC.....
- 23 DORAL.....
- 24 GPC.....
- 25 BRONCO.....
- 26 SONOMA.....
- 27 MISTY.....
- 28 GOLD COAST.....
- 29 SMOKE ONE.....
- 30 STOCKTON.....
- 31 SMOKER FRIENDLY.....
- 32 WHATEVER’S CHEAPEST

- 95 OTHER.....
 (Specify: _____)
- 99 REFUSED.....
- 98 DON’T KNOW/NOT SURE

B21 oth.

ENTER RESPONSE _____

B26a. What best describes your intentions regarding quitting? Would you say you . . .
(QUITINT)

- 01 //SKIP TO B27//..... Never expect to quit
- 02 Might quit in the future, but
not in the next 6 months,.....
- 03 Will quit in the next 6
months, or
- 04 Will quit in the next month?

[DO NOT READ]

- 05 //SKIP TO B28// **ALREADY QUIT**
- 95 OTHER (Specify)

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

B26a oth.

ENTER RESPONSE _____

//IF B26A=01 SKIP TO B27.IF B26A=05 SKIP TO B28. ELSE CONTINUE//

B26a1. The next time you decide to quit smoking, what method do you think you'll try?

[IF NECESSARY, READ RESPONSES:]

- 01 COLD TURKEY, SELF-HELP
- 02 NICOTINE SUBSTITUTE [patch, gum, inhaler,
spray, lozenges].....
- 03 ZYBAN [Wellbutrin, bupropion, anti-depressant].....
- 09 CHANTIX [Varenicline]
- 04 HYPNOSIS
- 05 QUITLINE.....
- 06 GRADUALLY REDUCE NUMBER OF CIGS.....
- 07 ALTERNATE THERAPIES.....**
- 08 CLASS OR PROGRAM.....**

- 95 OTHER (Specify) _____
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

B26a1 oth.

ENTER RESPONSE _____

B27. How sure are you that you could stop smoking and stay off cigarettes for at least one month? Would you say

(QUITSURE)

- 01 Very sure,.....
- 02 Somewhat sure,
- 03 Somewhat unsure, or.....
- 04 Very unsure?

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

//IF RESPONSE TO B27 EXISTS, SKIP TO C1//

B28. How long has it been since you last smoked regularly?

(LASTSMO) (LASTUNI2)

[IF NEEDED: Regularly is at least a few cigarettes every few days.]

[IF ASKED: A few is 4 or 5.]

[NEVER SMOKED REGULARLY = 0]

NUMBER [] [] [] [] } [SKIP TO
UNIT..... [] } B29]

- 01 DAYS
- 02 WEEKS
- 03 MONTHS
- 04 YEARS

- 999 REFUSED.....
- 998 DON'T KNOW/NOT SURE

//IF B28=999, OR 998 CONTINUE. ELSE SKIP TO B29//

B28a. Was the last time you smoked regularly before January 1, 2006?
(LSTMRYR)

- 01 YES.....
- 02 NO

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE.....

//IF B28A=01 SKIP TO B29. ELSE CONTINUE//

B28b. Was it more than 1 year ago?
(LSTMRSX)

- 01 YES.....
- 02 NO

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE.....

B29. How long has it been since you smoked any cigarettes at all, even one puff on a cigarette?
(LASTPUF) (LASTUNI3)

- NUMBER|_|_|
- UNIT..... |
- 01 DAYS
- 02 WEEKS
- 03 MONTHS
- 04 YEARS

- 999 REFUSED.....
- 998 DON'T KNOW/NOT SURE
-

SECTION C: RECENT SMOKING HISTORY
[PROGRAMMER: ESTABLISHED FORMER SMOKERS SKIP TO SECTION D]

C1. During the past 12 months, have you quit smoking for one day or longer?
(QUITONE)

- 01 YES.....
- 02 NO.....

- 99 REFUSED..... 7
- 98 DON'T KNOW/NOT SURE

//IF C1=01 CONTINUE. ELSE SKIP TO C1D//

C1b. During the past 12 months, how many times did you stop smoking for one day or longer because you were trying to quit smoking?
(QUITNUM12)

- __ NUMBER|_|_|
- 000 NONE

- 999 REFUSED.....
- 998 DON'T KNOW/NOT SURE

//ALL RESPONSES FROM C1b CONTINUE TO C1C//

C1c. Since you started smoking regularly, how many times have you stopped smoking for one day or longer because you were trying to quit smoking?

(QUITNUMLIFE) [IF NEEDED: INCLUDING THE TIMES IN THE PAST 12 MONTHS]

f

[PROGRAMMER: RANGE: C1c>=C1b]

__ NUMBER (range=001-996).....|_|_| → //SKIP TO C1e IF >0//

000 NONE

999 REFUSED.....

998 DON'T KNOW/NOT SURE

[ASK C1d IF C1(02,98,99) OR [c1c#0,998,999].

C1d. Have you ever seriously considered quitting?

(CONSIDER)

01 YES.....

02 NO.....

99 REFUSED.....

98 DON'T KNOW/NOT SURE

//IF RESPONSE TO C1D EXISTS, SKIP TO C15, EXCEPT IF C1=01, THEN GO TO C1e/

C1e. Since you started smoking regularly, what is the longest time you have ever gone without smoking a cigarette?

(NOSMKNUM) (NOSMKUNI)

[IF LESS THAN 1 HOUR, CODE AS 1 HOUR; IF NEVER, ENTER 000]

__ NUMBER.....|_|_|

UNIT|_|

[INTERVIEWER, READ IF NEEDED: WOULD THAT BE IN ...?]

00 HOURS

01 DAYS

02 WEEKS

03 MONTHS

04 YEARS

999 REFUSED

998 DON'T KNOW/NOT SURE..... -

C5a. Have you ever used a nicotine substitute for a quit attempt?

[IF NEEDED: On any past quit attempt, not just the most recent]

(EVERNR) [IF NEEDED: SUCH AS A NICOTINE PATCH, GUM, INHALER, SPRAY OR LOZENGE]

01 //GO TO C2// YES

02 //GO TO C5b// NO.....

99 //GO TO C2//REFUSED.....

98 //GO TO C2//DON'T KNOW/NOT SURE

//IF C5a= 02 ASK C5b. ELSE GO TO C2//

C5b. People have different reasons for not using nicotine substitutes. What are the most important reasons why you have never used a nicotine substitute?

(WHYNOTNR) [INTERVIEWER: PROBE FOR MULTIPLE RESPONSES, ASK 'ANYTHING ELSE' UNTIL NO

MORE ANSWERS, DON'T READ]

01 AFRAID OF SUBSTITUTE – ADDICTION.....

02 AFRAID OF SUBSTITUTE-HEART ATTACK

03 AFRAID OF SUBSTITUTE-CANCER

04 COST OF SUBSTITUTE

- 05 DON'T KNOW HOW/WHERE TO GET THE SUBSTITUTE.....
- 06 DON'T THINK IT WOULD WORK FOR ME
- 07 KNOW SOMEBODY IT DIDN'T WORK FOR.....
- 08 THINK I CAN QUIT WITHOUT IT.....

- 95 OTHER (Specify: _____)
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

//IF C1=1 CONTINUE; ELSE SKIP TO C15//

C5b oth

_____ ENTER OTHER/SPECIFY

C2. During the past 12 months how long ago was the start of your most recent attempt to quit smoking that lasted for one day or longer?

(LASTQUIT) (LASTUNI4)

NUMBER.....|_|_|

[INTERVIEWER, READ IF NEEDED: WOULD THAT BE IN...?]

UNIT..... |

01 DAYS

02 WEEKS

03 MONTHS

999 REFUSED.....

998 DON'T KNOW/NOT SURE

C14. How long did you stay off cigarettes during that attempt to quit smoking?

(QUITOFFN) (QUITOFFU)

NUMBER.....|_|_|

UNIT..... |

[INTERVIEWER, READ IF NEEDED: WOULD THAT BE IN ...?]

01 DAYS

02 WEEKS

03 MONTHS

999.....REFUSED

998.....DON'T KNOW/NOT SURE

C3. For this most recent attempt, did you use counseling to adjust to life without cigarettes?

(QUITHELP)

01 YES

02 //SKIP TO C5// NO

99 //SKIP TO C5//REFUSED.....

98 //SKIP TO C5//DK/NOT SURE ...

//IF C3=01 CONTINUE; ELSE SKIP TO C5//

C4. What did you use? Was it . . .

(HELPGRP) C4a. Group counseling?.....

(HELPONE) C4b. One-on-one counseling?.....

(HELPSSELF) C4c. Self-help materials?.....

(HELPTLELE) C4d. Telephone counseling?.....

(HELPINET) C4e. a site on the internet?.....

//USE THE FOLLOWING RESPONSE OPTIONS FOR C4a-C4e//

01 YES.....

- 02 NO.....
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE.....

C5. For this most recent attempt to quit smoking, did you use a nicotine substitute such as . . .

- (NICPATCH) C5_a. A Nicotine patch?
- (NICGUM) C5_b. Nicotine gum?.....
- (NICINHA) C5_c. A Nicotine inhaler or spray?.....
- (NICLOZ) C5_d. Nicotine lozenges?.....

//USE THE FOLLOWING RESPONSE OPTIONS FOR C5_a-C5_e//

- 01 YES.....
- 02 NO.....
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE.....

//IF C5A_1=1 or c5b_1=1 or c5c_1=1 or c5d_1=1 CONTINUE; ELSE SKIP TO C9//

C6. How long did you use the nicotine substitute(s) for this most recent attempt?

(NICNUM) (NICUNIT)

[TOTAL TIME USING ONE OR MORE NICOTINE SUBSTITUTES]

NUMBER|_|_|

UNIT.....|_|

[INTERVIEWER, IF NEEDED: WOULD THAT BE IN...?]

- 01 DAYS
- 02 WEEKS
- 03 MONTHS
- 04 YEARS

- 999 REFUSED.....
- 998 DON'T KNOW/NOT SURE.....

C6a. Why did you stop using the nicotine substitute?

//ALLOW MULTIPLE RESPONSES//

[INTERVIEWER: PROBE FOR MULTIPLE RESPONSES, ASK 'ANYTHING ELSE' UNTIL NO MORE ANSWERS, DON'T READ]

- 01 QUIT SMOKING, DIDN'T NEED THE SUBSTITUTE ANYMORE,
- 02 SUBSTITUTE MADE ME FEEL BAD, DIDN'T LIKE EFFECTS,.....
- 03 SUBSTITUTE DIDN'T HELP ME QUIT SMOKING,.....
- 04 AFRAID OF SUBSTITUTE – ADDICTION, HEART ATTACK, CANCER,
- 05 STARTED SMOKING AGAIN
- 06 COST OF SUBSTITUTE
- 07 STILL USING THE SUBSTITUTE

95 OTHER (Specify: _____).....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

C6A oth.

ENTER RESPONSE _____

C7. Would you recommend a nicotine substitute to a friend who wanted to quit smoking?

(RECNR)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DK/NOT SURE

C8. Who paid for your nicotine replacement therapy? Was it....
(PAYNR)

- You completely,.....
- 01 You partially, and partially paid by health insurance
- 02 or medical benefits,
- 03 Completely paid by health insurance or medical benefits, or.....
- 05 Provided free by the Colorado QuitLine?

[DO NOT READ]:

- 04 FREE FROM A RELATIVE OR FRIEND
- 95 OTHER (Specify:_____)

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

C8 oth.

ENTER RESPONSE _____

//C8 Responses 01-05, 95, 99 and 98, ALL go to C9//

C9. For this last attempt to quit smoking, did you use a prescription medication called . . .

- (ZYBAN)** C9a. Zyban (or bupropion)?.....
(CHANTIX) C9b. Chantix (or varenicline).....
(OTHERAD) C9c. Any other medication to help you quit smoking
besides nicotine?(Specify: _____)

- 01 YES.....
02 NO
- 99 REFUSED.....
98 DON'T KNOW/NOT SURE

C9c oth.

ENTER RESPONSE _____

//IF C9A=1 or c9b=1 or c9c=1 CONTINUE; ELSE SKIP TO C13//

C10. How long did you use a prescription medication other than nicotine for this last attempt?

(ANTINUM) (ANTIUNIT)

__ _ NUMBER|_|_|
UNIT..... |

[INTERVIEWER, READ IF NEEDED: WOULD THAT BE IN ...]

- 01 DAYS
02 MONTHS
03 YEARS
99 REFUSED.....
98 DON'T KNOW/NOT SURE

C11. Would you recommend that a friend seek a prescription for this medication from their physician to help them quit?

(RECANTI)

- 01 YES
02 NO
- 99 REFUSED
98 DON'T KNOW/NOT SURE

C12. Who paid for your prescription? Was it....

(PAYANTI)

READ LIST

- 01 You completely,
02 You partially, and partially paid by health insurance or medical benefits, or
03 Completely paid by health insurance or medical benefits?.....

DO NOT READ:

- 04** FREE SAMPLES
95 OTHER (Specify: _____)

- 99 REFUSED
98 DON'T KNOW/NOT SURE

C8 oth.

ENTER RESPONSE _____

C13. For this last attempt to quit smoking, did you use an alternative therapy to adjust to life without cigarettes?
[IF NEEDED: Alternative therapies to quit smoking include herbal medicine, chiropractic, acupuncture, massage, hypnosis, and other things.]

(ALTTHPY)

- 01 YES
- 02 NO

- 99 REFUSED
- 98DON'T KNOW/NOT SURE

PROGRAMMER: ALL THOSE WHO WERE ASKED C1 SKIP BACK IN HERE.
//ASK OF ALL WITH A RESPONSE TO C1//

C15. Have you heard of the Colorado QuitLine?
(QUITLINE)

[IF ASKED: It's a free telephone counseling service to help people quit smoking.]
 [IF ASKED: The Colorado Department of Public Health and Environment can give you the QuitLine telephone number.]

- 01 YES
- 02 NO

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

//IF C15=1 CONTINUE; ELSE SKIP TO C16//

C15a. Please tell me the telephone number.
(QUITNUM)

- 01 (1-)800-639-QUIT
- 02 (1-)800-639-7848.....
- 03 (1-)800-QUITNOW.....
- 04 (1-)800-784-8669.....

- 95 OTHER SPECIFY _____

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

C15a oth.

ENTER RESPONSE _____

C15b. Have you ever called the Colorado QuitLine?
(CALLQUIT)

- 01 YES
- 02 NO

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

//IF C15B=1 CONTINUE; ELSE SKIP TO C15C//

C15bb. Have you called the Colorado QuitLine in the last year?
(CALLYEAR)

- 01 YES.....
- 02 NO

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

////ANY RESPONSE TO C15bb goes to C15c//,

C15c. What do you think the QuitLine provides to callers?

(QLPROVIDE)

[ALLOW MULTIPLE RESPONSES; ASK ‘Anything else?’ UNTIL NO MORE ANSWERS; DON’T READ]

- 01 TELEPHONE COUNSELING
- 02 A CHOICE OF PROGRAMS
- 03 INFORMATION IN THE MAIL.
- 04 NICOTINE PATCH OR GUM....
- 05 REFERRAL TO A PROGRAM ..

95 OTHER (SPECIFY): _____

99 REFUSED.....

98 DON’T KNOW/NOT SURE

C15c oth.

ENTER RESPONSE _____

C15d. What best describes your intentions regarding calling the QuitLine in the future? Would you say you . . .

(QLINTENT)

01 Never expect to call the QL,

02 Might call the QL in the future, but not in the next 6 months,

03 //GO TO C16// Will call the QL in the next 6 months, or.....

04 //GO TO C16// Will call the QL in the next month?.....

95 //GO TO C16// OTHER (Specify) _____

99 //GO TO C16// REFUSED.....

98 //GO TO C16// DON’T KNOW/NOT SURE

C15d oth. //GO TO C16//

ENTER RESPONSE _____

//IF C15D=01 OR C15D=02 CONTINUE; ELSE SKIP TO C16/

C15e. People have different reasons for not using the QuitLine. What are your most important reasons?

(QLUNLIKELY) (INTERVIEWER:PROBE IF NECESSARY, FOR EXAMPLE IF RESPONDENT SAYS IT WOULDN’T WORK FOR THEM, ASK ‘WHAT IS IT ABOUT THE QUITLINE THAT KEEPS IT FROM WORKING?’; DON’T READ; ALLOW MULTIPLE RESPONSES)

01 I DON’T WANT TO TALK TO A COUNSELOR

02 I DON’T NEED HELP TO QUIT.....

03 I DON’T HAVE TIME

04 I DON’T WANT TO TALK TO SOMEBODY WHO I CAN’T SEE/MEET

05 I NEED DIFFERENT SERVICES, GROUP SESSIONS.....

06 I NEED DIFFERENT SERVICES, INDIVIDUAL FACE-TO-FACE SESSIONS

07 I NEED DIFFERENT SERVICES, MEDICATIONS OTHER THAN NRT

08 I NEED DIFFERENT SERVICES, OTHER(SPECIFY) _____

09 I KNOW SOMEBODY WHO DIDN’T LIKE IT.....

10 I KNOW SOMEBODY WHO DIDN’T QUIT SMOKING AFTER CALLING THE QUITLINE

95 OTHER (SPECIFY) _____

99 REFUSED.....

98 DON’T KNOW/NOT SURE

C15e oth.

ENTER RESPONSE _____

//ASK OF ALL WITH A RESPONSE TO C1//

C16. Have you heard of the Colorado internet-based service called www.coquitline.org?
(QUITNET)

[IF ASKED: It's an internet Web site to help people quit smoking.]

[IF NEEDED: Repeat the internet address.]

- 01 YES
- 02 //GO TO C17// NO
- 99 //GO TO C17// REFUSED
- 98 //GO TO C17// DON'T KNOW/NOT SURE.....

//IF C16=01 CONTINUE; ELSE SKIP TO C17//

C16b. Have you ever visited www.coquitline.org?
(VSTNET)

- 01 YES
- 02 NO
- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

C17. Have you ever used smokeless tobacco because you were in a situation in which you could not smoke?
(SMKLESS)

- 01 YES
- 02 NO
- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

//RECENT FORMER SMOKERS SKIP TO D1//

//ASK C18 of CURRENT SMOKERS AND NONDAILY SMOKERS//

C18. Would you replace your cigarettes with smokeless tobacco, dip, or chew if you thought it had fewer health consequences? Would you say... .

(REPLACE)

[READ LIST]

- 01 definitely yes,.....
- 02 probably yes,.....
- 03 probably not, or.....
- 04 definitely not?
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

C19. How much do your close friends and family want you to quit smoking? Would you say...
(FAMWANT)

- 01 Very much,.....
- 02 somewhat,.....
- 03 a little, or.....
- 04 not at all.....
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

//SECTION D ASKED OF ALL EVER-SMOKERS.EVER SMOKERS: (B1=01 or 03)/ or
(B2=1-99)/ SECTION D: LIFETIME SMOKING HISTORY

D1. How old were you when you smoked your first whole cigarette?
(SMK1AGE) //USE "97" for 97 AND OLDER//

- 00 //SKIP TO E1// NEVER SMOKED WHOLE CIGARETTE
- __ _ YEARS OLD [] []
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

//IF D1=00"never" SKIP TO E1//

D3. How old were you when you first began to smoke cigarettes regularly?
(SMKAGE)) //USE "97" for 97 AND OLDER//

[IF ASKED: Regularly is at least a few cigarettes every few days.]
[IF ASKED: A few means at least every 4 or 5 days.]

- _____ YEARS OLD [] []
- 000 // SKIP TO E1// NEVER SMOKED REGULARLY
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

//IF D3=000, SKIP TO E1//

//IF B2= 1-99, SKIP TO E1//

//ESTABLISHED FORMER SMOKERS SKIP TO E1//

D6. Twelve months ago, did you smoke every day, some days, or not at all?
(DAILY12)

- 01 EVERY DAY.....
- 02 SOME DAYS.....
- 03 NOT AT ALL
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

//IF D6=01 SKIP TO D9//

//IF D6=03 SKIP TO E1//

D7. How many days of the month did you smoke 12 months ago?
(NUMDYS12)

- __ --NUMBER OF DAYS..... [] []
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

D8. On the days that you did smoke, how many cigarettes did you smoke per day at this time 12 months ago?
(PERDAY12)

- [100 = 100 OR MORE CIGARETTES]
- ___ NUMBER OF CIGARETTES
- 999 REFUSED..... [SKIP TO E1]
- 998 DON'T KNOW/NOT SURE

//IF A RESPONSE EXISTS TO D8, SKIP TO E1//

D9. How many cigarettes on average did you smoke per day at this time 12 months ago?
(SMKPERDY12)

[100 = 100 OR MORE CIGARETTES]
__ _ NUMBER OF CIGARETTES ... [] [] []
999 REFUSED.....

998 DON'T KNOW/NOT SURE -

SECTION E: OTHER TOBACCO USE

[Now I would like to ask about other tobacco use.]

E1. Other than cigarettes, have you ever used any tobacco products such as chewing tobacco, snuff, cigars, pipes or other tobacco product?

(TOBPROD)

01 YES
02 ... NO
99 REFUSED
98 DON'T KNOW/NOT SURE

//IF E1=02 SKIP TO E10//

E4. Have you ever smoked cigars, cigarillos, or little cigars?

(SMKCIGAR)

01 YES.....
02 NO.....

99 REFUSED.....
98 DON'T KNOW/NOT SURE

//IF E4=01 CONTINUE; ELSE SKIP TO E7//

E5. Have you smoked at least 50 cigars in your entire life?

(CIGAR50)

01 YES.....
02 NO.....

99 REFUSED.....
98 DON'T KNOW/NOT SURE

E6. Do you now smoke cigars every day, some days or not at all?

(CIGARDAY)

01 EVERY DAY.....
02 SOME DAYS.....
03 NOT AT ALL

99 REFUSED.....
98 DON'T KNOW/NOT SURE

E7. Have you ever used chewing tobacco or snuff?

(TOBUSE)

01 YES.....
02 NO.....

99 REFUSED.....
98 DON'T KNOW/NOT SURE

//IF E7 =01 CONTINUE; ELSE SKIP TO E10//

E8. Have you used chewing tobacco or snuff at least 20 times in your entire life?
(TOB20)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

E9. Do you now use chewing tobacco or snuff every day, some days, or not at all?
(TOBNOW)

- 01 EVERY DAY.....
- 02 SOME DAYS.....
- 03 NOT AT ALL

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

E10. Have you ever smoked a Hookah pipe?
[IF NEEDED: "ALSO KNOWN AS A WATERPIPE"]
[HOOKAH IS PRONOUNCED "WHO-KAH"]
(HOOKAH)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

SECTION F: SMOKING RESTRICTIONS

[PROGRAMMER: ASK OF ALL RESPONDENTS.]

[Interviewer: Now I'd like to ask about smoking in your home and your workplace.]

F1. Which statement best describes the rules about smoking inside your home...

...
(HOMERULE)

- 01 is not allowed anywhere,
- 02 is allowed in some places,.....
- 03 is allowed sometimes or for some people, or.....
- 04 is allowed everywhere?.....
- 05 NO RULES.....

- 95 OTHER (Specify):.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

F1 oth.

ENTER RESPONSE

//IF F1=02-05, 95, 99,98 AND NUMBER OF HH MEMBERS = 1, SKIP TO F1A//
//IF F1=01 AND NUMBER OF HH MEMBERS=1, SKIP TO F1C//
//IF F1=05, SKIP TO F1A//
//IF F1=99,98, AND NUMBER OF HH MEMBERS =02-97 SKIP TO F4 //
//ASK F3 if F1=01-04 AND NUMBER OF ADULT HH MEMBERS >1 (GREATER THAN 1)//

//if f1=02-05, 95, 99, 98 AND HH MEMBER=99 or 98, skip to f1a//

F3. Who decided that {read answer from F1 in your house}. one or more smokers, one or more nonsmokers, or smokers and nonsmokers together?

(WHODCD)

- 01 SMOKER(S).....
- 02 NONSMOKER(S).....
- 03 BOTH (SMOKER[S] & NONSMOKER[S]).....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE.....

//IF F1=01 SKIP TO F1C//

F1a. What is the main reason for [the rule (IF F1=2,3,4, 95)]/[not having a rule (IF F1=5)] about smoking inside your home?

(HOMEREASON)

[DON'T READ]

- 01 no one in the household smokes.....
- 02 someone in the household wants to smoke inside the home
- 03 guests smoke inside the home
- 04 someone in the household doesn't believe that smoking inside the home is a problem
- 05 there are no children in the household.

- 95 Other (specify):.....

- 99 REFUSED.....7
- 98 DON'T KNOW/NOT SURE8

F1a oth.

ENTER RESPONSE

//IF ANSWER TO F1A, SKIP TO F4//

F1c. How easy or hard was it to eliminate smoking inside your home? Would you say that it was...

(EASYBAN)

- 01 very easy,
- 02 somewhat easy,
- 03 not easy or hard,
- 04 somewhat hard, or
- 05 very hard?.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

F4. In the past 30 days, has anyone, including yourself, smoked cigarettes, cigars or pipes anywhere inside your home?

(SMOKHOME)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

F5. Which statement best describes the rules about smoking in your personal vehicle? Would you say that smoking in your personal vehicle....

(AUTORULE)

- 01 is never allowed,.....
- 02 is allowed sometimes,
- 03 is allowed with the windows open, or
- 04 there are no rules about smoking inside your vehicle?.....
- 05 DON'T HAVE A VEHICLE

- 95 OTHER (Specify):.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE.....

F5 oth.

ENTER RESPONSE _____

F6. In the last 12 months, have you ever asked someone not to smoke around you or your family?
(NOTSMOK-P2NOTSMOK)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

F7a. While working at your job, do you drive a taxi, truck or other vehicle most of the time?
(WRKDRV)

[IF NEEDED: Most of the time means more than half the time that you are working.]

- 01 YES.....
- 02 NO..... → [SKIP TO F7]
- 03 DON'T WORK..... → [SKIP TO F13]

- 99 REFUSED..... → [SKIP TO F7]
- 98 DON'T KNOW/NOT SURE

//IF F7A=03 SKIP TO F13//
 //IF F7A=01 CONTINUE//
 //ELSE SKIP TO F7//

F7b. Which of the following best describes the official policy about smoking in the vehicle? Would you say smoking is ...

(DRVPLCY)

- 01 not allowed at all,.....
- 02 not allowed for you but allowed for your passengers, or
- 03 allowed for anyone?
- 04 NO POLICY

- 99 REFUSED.....
- 98** DON'T KNOW/NOT SURE

F7. While working at your job, are you indoors most of the time?
(INDRJOB)

- 01 YES.....
- 02 NO / DON'T WORK.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE.....

//IF F7=01 CONTINUE; ELSE SKIP TO F13//

F10. In the past 30 days, has anyone, including yourself, smoked cigarettes, cigars, or pipes anywhere inside your workplace?

(WORK30)

- 01 YES
- 02 NO
- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

//IF F10=01 CONTINUE;ELSE SKIP TO F13//

F10a. About how often does smoking occur inside your workplace? Would you say...

(WORKSMK)

- 01 daily,
- 02 several times a week,
- 03 at least monthly, or
- 04 rarely?

- 99 REFUSED
- 98 DON'T KNOW/NOT SURE

F10b. Who is it that smokes at your workplace? Is it...

(WORKWHO) (ALLOW MULTIPLE ANSWERS)

//MUL=4//

- 01 You
- 02 other employees
- 03 customers or non-employees
- 04 supervisors or superiors, and/or
- 05 somebody else /other/specify

- 99 REFUSED
- 98 DON'T KNOW

F10b oth **ENTER RESPONSE** _____

F13. In Colorado, in the past 6 months, have you had to put up with someone smoking near you at any other place besides your home or your workplace?

(COSMK)

- 01YES
- 02 // SKIP TO F15//NO

- 99 // SKIP TO F15//REFUSED
- 98 // SKIP TO F15//DON'T KNOW/NOT SURE

//IF F13=01 CONTINUE;ELSE SKIP TO F15//

F14. In Colorado, the last time this happened, what kind of business or place were you in?

(COWHERE)

- 01RESTAURANT
- 02RESTAURANT BAR
- 03BAR OR TAVERN
- 04 //SKIP TO F15//POOL HALL
- 05 //SKIP TO F15//SHOPPING MALL
- 06 //SKIP TO F15//PUBLIC PARK/OUTDOORS
- 07 //SKIP TO F15//COMMUNITY EVENT
- 08 //SKIP TO F15//SPORTS EVENT

- 09 //SKIP TO F15// OTHER PERSON'S HOME
- 10 //SKIP TO F15// OTHER PERSON'S AUTOMOBILE
- 11 //SKIP TO F15// GAME ROOM/CASINO/BINGO HALL
- 95 //SKIP TO F15// OTHER(Specify) _____

- 99 //SKIP TO F15// REFUSED
- 98 //SKIP TO F15// DON'T KNOW/NOT SURE

F14 oth. //SKIP TO F15//

ENTER RESPONSE _____

//IF F14=01-03 CONTINUE; ELSE SKIP TO F15//

F14b. Was this an indoor or outdoor part of the restaurant or bar?
(COINOUT)

- 01 INDOOR.....
- 02 OUTDOOR.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

[PROGRAMMER: ASK ONLY OF CURRENT (DAILY AND NON_DAILY) SMOKERS]

//IF B7=01 OR 02 OR B7=3 and B9=1 CONTINUE; ELSE SKIP TO G1//

F15. Colorado began a smoke-free workplace law in July 2006. Since the law, do you now smoke more, less, or about the same amount as you smoked before the law?

(LAWSMK)

- 01 MORE
- 02 LESS
- 03 ABOUT THE SAME.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

F15b. Since the law, is your desire to quit smoking stronger, weaker, or about the same as it was before the law?

(LAWQUIT)

- 01 STRONGER
- 02 WEAKER
- 03 ABOUT THE SAME.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

SECTION G: HEALTH CARE

//ASK SECTION G OF ALL RESPONDENTS//

[Now I'd like to ask you a few questions about your health, your health insurance and your health care.]

[DO NOT READ]

G1. What health insurance do you have?

(INSTYPE) [IF MORE THAN ONE, ASK FOR THE PRIMARY HEALTH INSURANCE.]

- 01 NO HEALTH INSURANCE.....
- 02 PACIFICARE
- 03 ANTHEM/ BLUE CROSS & BLUE SHIELD / HMO COLORADO
- 04 AETNA.....

05	KAISER
06	CIGNA HEALTHCARE OF COLORADO
07	UNITED HEALTHCARE
08	HUMANA
09	ROCKY MOUNTAIN HMO
10	ONE HEALTH PLAN OF CO
11	ACCESS / COLORADO ACCESS
12	DENVER HEALTH
13	VA OR MILITARY
14	TRI-CARE
15	MEDICARE
16	MEDICAID
17	SECURE HORIZON
18	SLOANS LAKE
19	STATE FARMS
20	COMMUNITY HEALTH PLAN OF THE ROCKIES
21	FORTIS
22	ALLIANCE
23	FIRST HEALTH
24	GOLDEN RULE
25	METLIFE
26	MUTUAL OF OMAHA
27	PREDENTIAL
28	UNICARE
30	PACIFIC LIFE
31	INTERCARE
32	GREAT-WEST HEALTHCARE OF COLORADO
33	OTHER HMO
34	SAN LUIS VALLEY HMO
35	WAUSAU
36	MIDWEST
37	ASSURANT
38	MAIL HANDLER
39	CELTIC
40	HARTFORD
41	DEFINITY
42	AARP
43	MOUNTAIN MEDICAL
44	BANNER
45	FARMERS
46	GUARDIAN
47	GEHA
48	PRINCIPLE
49	PERA
50	PHCS
51	AMERICAN REPUBLIC
52	AMERICAN FAMILY
53	AMERIBEN
54	NRECA
55	WORLD
56	COBRA
57	AFLAC
58	EMPIRE
59	MEGA LIFE
60	LUMENOS
61	SELF-INSURED

95 OTHER (SPECIFY) _____

99 REFUSED.....

98 DON'T KNOW/NOT SURE

G1 oth.

ENTER RESPONSE _____

G2. Would you say your health is . . .

(GOODHLTH)

- 01 Excellent,
- 02 Very good,
- 03 Good,
- 04 Fair, or
- 05 Poor?

99 REFUSED.....

98 DON'T KNOW/NOT SURE

G14. Over the last 2 weeks, how many days have you had little interest or pleasure in doing things?

(MHDEP1)

//RANGE:01-14//

__ NUMBER OF DAYS.....|_|

00 NONE

99 REFUSED.....

98 DON'T KNOW/NOT SURE

G15. Over the last 2 weeks, how many days have you felt down, depressed or hopeless?

(MHDEP2)

//RANGE:01-14//

__ NUMBER OF DAYS.....|_|

00 NONE

99 REFUSED.....

98 DON'T KNOW/NOT SURE

G16. Has a doctor or healthcare provider ever told you that you have a mental health problem or mental illness?

(MHMENTAL)

01 YES

02 //SKIP TO G17// NO

99 //SKIP TO G17// REFUSED

98 //SKIP TO G17// DON'T KNOW/NOT SURE

//IF G16=01 CONTINUE; ELSE SKIP TO G17//

G16b. Please tell me what the problem or illness is called.

[MULTI ALLOW MULTIPLE RESPONSES]

[INTERVIEWER, ALLOW MULTIPLE RESPONSES]

(MHCONDITION)

01 DEPRESSION

02 ANXIETY

03 BIPOLAR DISORDER.....

04 SCHIZOPHRENIA

95 OTHER (Specify) _____

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

G16b oth.

ENTER RESPONSE _____

G17. Are you limited in any way in any activities because of mental or emotional problems?
(MHLIMIT)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

G18. Are you limited in any way in any activities because of physical problems?
(PHYLIMIT)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

G3. Is there a place that you usually go when you are sick or need advice about your health?
(SICKPLAC)

- 01 YES / YES, MORE THAN ONE
- 02 //SKIP TO G6// NO

- 99 //SKIP TO G6// REFUSED
- 98 //SKIP TO G6// DON'T KNOW/NOT SURE

//IF G3=01 CONTINUE; ELSE SKIP TO G6//

G4. What kind of place is it? Is it a ...
(PLACKIND)

[IF MORE THAN ONE, ASK FOR THE PRIMARY PLACE.]

- 01 clinic or health center,.....
- 02 doctor's office or HMO,.....
- 03 hospital emergency room,.....
- 04 hospital outpatient department, or...

[DO NOT READ]:

- 05 ALTERNATIVE THERAPY
- 06 BOOKS/INTERNET
- 07 FAMILY/FRIENDS

- 95 some other place?(specify _____)

- 99 //SKIP TO G6// REFUSED
- 98 // SKIP TO G6// DON'T KNOW/NOT SURE

G4 oth.

ENTER RESPONSE _____

//IF G4 = 99 OR 98 SKIP TO G6//

G5. Is that {INSERT FULL NAME FROM G4} the same place you USUALLY go when you need routine or preventive care, such as a physical examination or check up?
(WELKIND)

- 01 // **SKIP GO G7**//..... YES
- 02 NO

- 99 // **SKIP GO G7**// REFUSED
- 98 // **SKIP GO G7**// DON'T KNOW/NOT SURE

//IF G5=02 CONTINUE; ELSE SKIP GO G7//

G6. What kind of place do you USUALLY go to when you need routine preventive care, such as a physical examination or check-up?
(WELKIND2)

- 01 clinic or health center,.....
- 02 doctor's office or HMO,.....
- 03 hospital emergency room,.....
- 04 hospital outpatient department, or
- 05 //GO TO G6 OTH//or some other place/other specify?
- 06 NO PLACE

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

G6th

_____ Enter Other Specify

//ALL RESPONDENTS//

G7. During the past 12 months, how many times have you seen a doctor or other health care professional about your own health? Do not count times in the hospital overnight, emergencies, home health visits, or telephone calls to a doctor or other health professional.
[100 = 100 OR MORE VISITS]

(SEEDOCTR)

- __ __ TIMES.....|_|_|

- 999 REFUSED.....
- 998 DON'T KNOW/NOT SURE

G8. About how long has it been since you last saw or talked to a doctor or other health care professional about your own health? Include doctors seen while a patient in a hospital.

(LASTSAW) (LASTUNI) ENTER ZERO FOR "NEVER SEEN A DOCTOR"

- NUMBER|_|_|
- UNIT|_|

[INTERVIEWER, READ IF NEEDED: WOULD THAT BE IN...]

- 01 DAYS
- 02 MONTHS
- 03 YEARS

- 999 REFUSED.....
- 998 DON'T KNOW/NOT SURE

Jb. How long has it been since you last visited a dentist or a dental clinic for any reason?
(DENTIST)

- [DO NOT READ]
- 01 Within the past year (< 12 months ago).....
- 02 Within the past 2 years (1 year but < 2 years ago).....

- 03 Within the past 5 years (2 years but < 5 years ago) ...
- 04 5 or more years ago.....
- 05 Never

- 99 REFUSED.....
- 98 DON'T KNOW

[PROGRAMMER: NONSMOKERS AND ESTABLISHED FORMER SMOKERS SKIP TO SECTION H]
//IF B28 > 1 year OR B28b=01 OR B1=02 SKIP TO H1//

G9. {In the last 12 months/In the last 12 months before you quit} did a doctor or other healthcare provider advise you to stop smoking?

(DRADVISE)

- 01 YES
- 02 //SKIP TO G12// NO

- 99 //SKIP TO G12//REFUSED
- 98 //SKIP TO G12//DON'T KNOW/NOT SURE

//IF G9=01 CONTINUE; ELSE SKIP TO G12//

G11. When the doctor or healthcare provider advised you to stop smoking did you try to quit?

(DRDIDTRY)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW / NOT SURE.....

G10. {In the last 12 months/In the last 12 months before you quit}, did a doctor or other healthcare provider refer you to, or give you information on a smoking cessation program?

(DRREFER)

- 01 YES
- 02 // SKIP TO G12//NO

- 99 // SKIP TO G12//REFUSED
- 98 // SKIP TO G12//DON'T KNOW/NOT SURE

//IF G10=01 CONTINUE; ELSE SKIP TO G12//

G10a. What smoking cessation program was it?

- 01 COLORADO QUITLINE.....
- 02 INTERNET PROGRAM
- 03 A CLASS OR A GROUP
- 04 PRESCRIPTIONS
- 05 PRODUCTS LIKE THE PATCH
- 06 KAISER.....
- 07 HMO, VA, HOSPITAL, CLINIC

- 95 OTHER (Specify) _____

- 99 REFUSED.....
- 98 DON'T KNOW / NOT SURE.....

G10a oth.

ENTER RESPONSE _____

[PROGRAMMER: IF RESPONDENT HAS NO HEALTH INSURANCE (G1=1), SKIP TO SECTION H.]

G12. Does your health insurance pay for help to quit smoking, such as counseling, prescriptions, or nicotine substitutes like gum or patches?

(HLTHPAY)

- 01 YES.....
- 02 NO

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

SECTION H: ATTITUDES AND OPINIONS

//ASK SECTION H OF ALL RESPONDENTS//

[Now I'm going to ask some questions about your opinion on public policy and smoking.]

[PROGRAMMER: RANDOMIZE INTERVIEW ORDER OF QUESTIONS H1-H4, H12]

H1. Do you think the laws banning the sale of tobacco products to minors are adequately enforced or are not adequately enforced?

(MINORS)

- 01 YES, ENFORCEMENT ADEQUATE
- 02 NO, ENFORCEMENT NOT ADEQUATE.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

H4. Do you think that store owners should need a license to sell tobacco?

[IF NEEDED: Similar to a license to sell alcoholic beverages.]

[IF NEEDED: We are studying people's opinions with this question.]

(LICENSE)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

H12 Do you think the law should allow or prohibit tobacco advertising in stores where children go?

(ADCHILD)

- 01 ALLOW
- 02 PROHIBIT

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

H13. For each of the following locations, do you think the law should allow smoking or prohibit smoking?...

H13a. In outdoor public places such as parks, golf courses, zoos,
sports stadiums?.....

(OUTDOOR)

H13b. In outdoor restaurant dining patios?

(PATIO)

H13c. Inside cars when children are traveling in them?

(CARS)

H14. If you were shopping for an apartment or a condominium to live in, how important would it be to have the building be completely smoke free? Would it be...

- 01 very important.....
- 02 somewhat important.....
- 03 or not very important?
- //DO NOT READ//
- 04 WOULD NEVER LIVE IN
APARTMENT OR CONDO.....

- 99 REFUSED.....
- 98 DON'T KNOW.....

H9. During the last 12 months, have you heard of any activities in your community to reduce exposure to secondhand smoke?

(CMNTYACT)

- 01 YES.....
- 02 NO.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

H15. If you were asked to vote on a tax increase for cigarettes, how much additional tax on a pack of cigarettes would you vote for? Would you say...

(TAX)

[READ LIST]

- 01 \$.25 a pack,
- 02 \$.50,
- 03 \$.75,
- 04 \$1.00,
- 05 \$1.50,
- 06 \$2.00 or more a pack, or.....
- 07 no tax increase?.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

[INTERVIEWER: These next few questions are about cigarette smoking around you.]

H16. How many of your close friends and relatives smoke? Would you say...

- 00 none,.....
- 01 a few,.....
- 02 less than half,
- 03 about half,
- 04 or, most?.....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

H17. How do most of your close friends and family feel about cigarette smoking among adults? Would you say most of them think it is completely acceptable, somewhat acceptable, somewhat unacceptable, completely unacceptable, or they don't care one way or the other?

- 01 COMPLETELY ACCEPTABLE.
- 02 SOMEWHAT ACCEPTABLE....
- 04 SOMEWHAT UNACCEPTABLE

- 05 COMPLETELY UNACCEPTABLE
- 03 DON'T CARE EITHER WAY
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

H18. Cigarette companies use different methods to advertise and promote their products. I will describe several of these. For each one, please tell me whether you think the law should allow or prohibit this method

H18a. Actors or actresses smoking in movies?
(MOVIES)

H18b. Outdoor signs advertising tobacco at stores and gas stations?...
(SIGNS)

H18c. Sponsorship of sporting or cultural events by tobacco companies?
(EVENTS)

H18d. Coupons to obtain free samples of cigarettes by mail?
(COUPONS)

H18e. Promotional offers such as “dollar-off” or
 “two-pack-for-the-price-of-one”?
(DOLLAROFF)

- 01 ALLOW
- 02 PROHIBIT
- 03 NONE OF THE LAW'S BUSINESS
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

SECTION J: VERIFY , ETHNICITY, EDUCATION

//ASK OF ALL RESPONDENTS//

Finally, I have some background questions.

Research has found that some health characteristics and behaviors, like smoking, differ by things like age, race, sexual orientation and so on. One purpose of this study is to help learn more about these factors.

I want to reassure you that all your answers are completely confidential. If we come to any question you'd prefer not to answer, just let me know and we'll go on.

[PROGRAMMER:

//IF RESPONDENT ANSWERED SECTION A, AUTOCODE J1//,]

A22ADD. How long have you lived at your current address?
 (LIVED) (LIVUND) **[CODE NUMBER =1 IF RESPONSE IS LESS THAN ONE WEEK)**

- NUMBER|_|_|
- UNIT.....|_|
- 01 WEEKS
- 02 MONTHS
- 03 YEARS

- 999 REFUSED.....
- 998DON'T KNOW/NOT SURE

A22b. How long have you lived in Colorado?
(LIVEDCOL) **[RECORD 1 WEEK FOR LESS THAN ONE WEEK]**

NUMBER|_|_|
UNIT|_|
01 WEEKS
02 MONTHS
03 YEARS

///DATA PROCESSING PLEASE BACKCODE RESPONSE 04 TO 99//

04 // [SKIP TO A23// ALL MY LIFE
999 REFUSED
998 DON'T KNOW/NOT SURE

//IF A22B=04 OR A22b >10 years SKIP TO J1/

A22c. Where did you last live before you began living in Colorado?
(LSTLIVE)

[IF NEEDED, PROBE FOR STATE OR COUNTRY]

..... [IF MORE THAN ONE RESPONSE, PROBE FOR MOST RECENT]

- 01 ALABAMA (AL)
- 02 ALASKA (AK)
- 03 ARIZONA
- 04 ARKANSAS
- 05 CALIFORNIA
- 06 COLORADO
- 07 CONNECTICUT
- 08 DELAWARE
- 09 FLORIDA
- 10 GEORGIA
- 11 HAWAII
- 12 IDAHO
- 13 ILLINOIS
- 14 INDIANA
- 15 IOWA
- 16 KANSAS
- 17 KENTUCKY
- 18 LOUISIANA
- 19 MAINE
- 20 MARYLAND
- 21 MASSACHUSETTS
- 22 MICHIGAN
- 23 MINNESOTA
- 24 MISSISSIPPI
- 25 MISSOURI
- 26 MONTANA
- 27 NEBRASKA
- 28 NEVADA
- 29 NEW HAMPSHIRE
- 30 NEW JERSEY
- 31 NEW MEXICO
- 32 NEW YORK
- 33 NORTH CAROLINA
- 34 NORTH DAKOTA
- 35 OHIO
- 36 OKLAHOMA
- 37 OREGON

38	PENNSYLVANIA	.....
39	RHODE ISLAND	.....
40	SOUTH CAROLINA	.....
41	SOUTH DAKOTA	.....
42	TENNESSEE	.....
43	TEXAS	.....
44	UTAH	.....
45	VERMONT	.....
46	VIRGINIA	.....
47	WASHINGTON	.....
48	WEST VIRGINIA	.....
49	WISCONSIN	.....
50	WYOMING	.....
51	DISTRICT OF COLUMBIA	
52	GENERIC USA	.....
55	MEXICO	
95	OTHER/SPECIFY [ALSO FOR OUTSIDE US]	_____
998	DON'T KNOW/NOT SURE	
999	REFUSE	

//FOR DATA PROCESSING USE THIS LIST FOR BACKCODING OTHER/SPECIFIES and
DK/REF RESPONSES//

REFUSED	.....	97
DON'T KNOW	.....	98
GREECE	.....	99
GUATEMALA	.....	100
VIETNAM	.....	101
HONDURAS	.....	102
HONG KONG	.....	103
HAITI	.....	104
ICELAND	.....	105
INDIA	.....	106
IRAN	.....	107
IRELAND	.....	108
ISRAEL	.....	109
JAMAICA	.....	110
KOREA	.....	111
KUWAIT	.....	112
LIBYA	.....	113
LITHUANIA	.....	114
MALAYSIA	.....	115
MARSHALL ISLANDS	.....	116
YEMEN	.....	117
MONGOLIA	.....	118
RUSSIA	.....	119
NEPAL	.....	120
NEW ZEALAND	.....	121
NIGERIA	.....	122
PANAMA	.....	123
PERU	.....	124
PHILIPPINES	.....	125
POLAND	.....	126
PORTUGAL	.....	127
ROMANIA	.....	128
NORTHERN MARIANA ISLANDS	.....	129
SAUDI ARABIA	.....	130

SCOTLAND	131
SERBIA	132
SINGAPORE	133
SOMALIA	134
SOUTH AFRICA.....	135
SOUTH KOREA	136
SUDAN.....	137
SWAZILAND.....	138
SWITZERLAND	139
TAIWAN	140
THAILAN.....	141
TRINIDAD	142
UKRAINE.....	143
UGANDA	144
UNITED KINGDOM	145
UNITED ARAB EMIRATES.....	146
URUGUAY.....	147
VENEZUELA.....	148
GENERIC MILITARY.....	149
GENERIC AFRICA.....	150
GENERIC ASIA.....	151
WEST GERMANY.....	152
US EAST COAST	153
EASTERN EUROPE.....	154
GENERIC EUROPE.....	155
US MIDWEST.....	156
NEW ENGLAND	157

J1. Which one of the following categories best describes you? Are you...
(RACEGRP)

- 01 Hispanic or Latino,.....
- 02 white,.....
- 03 black, African American,
- 04 Asian,
- 05 Native Hawaiian, other Pacific Islander,.....
- 06 American Indian, or Alaska Native?

- 95 OTHER [SPECIFY] _____).....

- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

J1oth.

ENTER RESPONSE _____

//IF J1=01 CONTINUE; ELSE SKIP TO J3//

J1b. Do you consider yourself to be...
(VERRACE)

- 01 Mexican,.....
- 02 Mexican American,.....
- 03 Spanish, or.....
- 05 other Hispanic or Latino? [SPECIFY] _____

- 99 REFUSED.....

98 DK/NOT SURE

J3. What language do you usually speak at home?
(LANGHOME)

- 01 ENGLISH
- 02 SPANISH.....
- 03 BOTH ENGLISH AND SPANISH
- 04 FRENCH.....
- 05 GERMAN
- 06 CHINESE.....
- 07 KOREAN.....
- 08 CANTONESE.....

95 OTHER (SPECIFY)_____

97 REFUSED.....

98 DON'T KNOW

J3 oth.

ENTER RESPONSE _____

[AUTOCODE B0 from P1SEX if “THAT’s YOU”=TRUE” AND P1 SEX IS NOT BLANK OR 99 OR 98]

B0 “I just need to verify.....Are you male or female? [ONLY ASK IF NOT APPARENT]”

- 01 MALE
- 02 FEMALE
- 99 REFUSE
- 98 DON'T KNOW

[AUTOCODE A7a from P1AGE if “THAT’s YOU”=TRUE” AND P1 AGE IS NOT BLANK OR 99 OR 98]

A7a What is your age?
.....[RANGE=18-97].

[USE 97 for AGE 97and OLDER]

.....01 ENTER AGE

..... 98 DON'T KNOW

..... 99 NOT SURE

[ASK A7b if A7a_01=BLANK, OR 98 OR 99]

A7b Are you between the ages of

[READ LIST]

- 04 18-24 years,.....
- 05 25-29 years,.....
- 06 30-44 years,.....
- 07 45-55 years,.....
- 08 56-64 years,.....
- 09 65 years or older?.....
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

Jd. Do you consider yourself to be: Heterosexual, that is, straight; Homosexual, that is gay or lesbian; **(GLB2)** Bisexual, or something else?

- 01 Heterosexual, that is, straight.....
- 02 Homosexual, that is gay or lesbian ...

03 bisexual.....

05 OTHER (Specify)

99 REFUSED.....

98 DON'T KNOW

Jd oth.

ENTER RESPONSE _____

J4. What is the highest grade or year of regular school or college that you completed?
(VEREDUC)

- 01 //GO TO J14B// GRADE 1
- 02 //GO TO J14B// GRADE 2
- 03 //GO TO J14B// GRADE 3
- 04 //GO TO J14B// GRADE 4
- 05 //GO TO J14B// GRADE 5
- 06 //GO TO J14B// GRADE 6
- 07 //GO TO J14B// GRADE 7
- 08 //GO TO J14B// GRADE 8
- 09 //GO TO J14B// GRADE 9
- 10 //GO TO J14B// GRADE 10
- 11 //GO TO J14B// GRADE 11
- 12 //CONTINUE TO J4a// GRADE 12
- 13 //GO TO J14B// POST SECONDARY SCHOOL
- 14 //GO TO J14B// SOME COLLEGE.....
- 15 //GO TO J14B// //GO TO J14B// BA/BS-LEVEL DEGREE
- 16 //GO TO J14B// BA/BS-LEVEL DEGREE + SOME
- 17 //GO TO J14B// GRADUATE SCHOOL
- 18 //GO TO J14B// MA/MS, PHD OR HIGHER 17
- 19 //GO TO J14B// NO FORMAL SCHOOLING...

95 //GO TO J14B// OTHER (SPECIFY) _____

99 //GO TO J14B// REFUSED

98 //GO TO J14B// DON'T KNOW

J4 oth.

ENTER RESPONSE _____

//IF GRADE=12, ASK J4a. OTHERWISE, SKIP TO J14b//]

J4a. Did you graduate from high school, or did you earn a GED (also called a general education diploma)?
(VERGED)

- 01 GRADUATED FROM HIGH SCHOOL.....
- 02 GED, GENERAL EDUCATION DIPLOMA.....
- 03 NEITHER, DID NOT GRADUATE
- 99 REFUSED.....
- 98 DON'T KNOW/NOT SURE

J14b. Are you currently . . .

(CURRWORK)

- 01 Working for money,.....
- 02 //SKIP TO J14A// A homemaker,...
- 03 Self-employed,.....
- 04 //SKIP TO J14b2// A student,
- 05 //[AUTOCODE J14b2a=1, SKIP TO J14b2]// A student and working for money

06 //SKIP TO J14A// Retired,.....
07 //SKIP TO J14A// Unemployed, or
08 //SKIP TO J14d// Unable to work/DISABLED?

99 REFUSED..... 97
98 DON'T KNOW/UNSURE 98

//IF J14B=01,03 CONTINUE//
//IF J14B=04,05 SKIP TO J14B2//
//IF J14B=08 SKIP TO J14d//
//ELSE SKIP TO J14A//

J14b1. What kind of business or industry are you working in?

01 SPECIFY _____

99 REFUSED..... 7
98 DON'T KNOW/NOT SURE 8

J14b1 oth.

ENTER RESPONSE _____

J14b1a. What kind of work are you doing? (For example: sales clerk, computer specialist, farming)?

01 SPECIFY _____

99 REFUSED..... 7 } [SKIP TO J14a]
98 DON'T KNOW/NOT SURE 8

J14b1a oth.

ENTER RESPONSE _____

//IF RESPONSE TO J14B1A EXISTS SKIP TO J14A//

J14b2. Are you a full time student or a part time student?

01 FULL TIME.....
02 PART TIME.....

99 REFUSED.....
98 DON'T KNOW/NOT SURE

///IFJ14b=05, AUTOCODE J14B2a as 01 "yes"//

J14b2a. Are you also working at a job for money?

01 YES
02 **// SKIP TO J14A//**NO

99 **// SKIP TO J14A//** REFUSED
98 **// SKIP TO J14A//** DON'T KNOW/UNSURE

//IF J14B2A = 01 CONTINUE; ELSE SKIP TO J14A//

J14b2a1. What kind of business or industry are you working in?

01 SPECIFY _____

99 REFUSED..... 7
98 DON'T KNOW/NOT SURE 8

J14b2a1 oth.

ENTER RESPONSE _____

J14b2b. What kind of work are you doing? (For example: sales clerk, computer specialist)?

01 SPECIFY _____

99 REFUSED.....

98 DON'T KNOW/NOT SURE

J14b2b oth.

ENTER RESPONSE _____

//ASK J14d if J14b=08 "Unable to work/DISABLED" //

J14d. We are studying the relationship between tobacco use and inability to work or disability. Please tell me the month and year you first became unable to work or disabled.

DISMONTH

DISYEAR

[INTERVIEWER PROBE FOR MONTH AND YEAR]

01 Enter month and year

DISMONTH _____

DISYEAR _____

99 REFUSED

98 DON'T KNOW

J14a. Are you ...

(COUPLE)

01 Married,.....

02 Divorced,.....

03 Widowed,.....

04 Separated,.....

05 Never been married, or.....

06 A member of an unmarried
Couple/living as married?

99 REFUSED.....

98 DON'T KNOW/NOT SURE

J14bb. Do you have a computer in your home that is connected to the Internet?

(INTRNET)

01 YES.....

02 NO.....

99 REFUSED.....

98 DON'T KNOW/UNSURE.....

J14c [ASK J14c PREGNOW IF RESPONDENT IS FEMALE (B0.= 02 FEMALE) AND< 45 YEARS OF AGE]

J14c. To your knowledge, are you now pregnant?

(PREGNOW)

01 YES.....

02 NO.....

99 REFUSED.....

98 DON'T KNOW/UNSURE.....

SECTION K: OBTAIN NAME AND ADDRESS FOR FUTURE CONTACTS

//ASK OF ALL RESPONDENTS//

[This concludes the main portion of the survey. I have one more thing I want to let you know about. The University of Colorado Denver often creates new studies about smoking or health. Some studies invite smokers or nonsmokers from the general public to participate. In the future, would you like to hear about new studies that you could join?]

K1. May I have your full name, please?

[ENTNAME]

01 YES.....

02 NO.....

99 REFUSED.....

98 DON'T KNOW/UNSURE.....

//IF K1=01 CONTINUE; ELSE SKIP TO CLOSE//

[IF RESPONDENT REFUSES TO GIVE LAST NAME, CODE SHIFT 6.]

FIRST NAME

_____ (SPFNAM)

MIDDLE INITIAL

_____ (SPMINT)

LAST NAME

_____ (SPLNAM)

K1b. May I have an alternate phone number other than the one I called you on today, which was [insert phone number here]?

K2. May I have your mailing address?

[PROBE FOR APARTMENT NUMBER]

STREET

_____ (RESPADDR)

CITY

_____ (RESPCITY)

ZIP

_____ (RESPZIP)

K3. In case you move, would you please give me the name and phone number of someone who does not live with you who would know your current telephone number? I will also need the town and state in which he/she lives.

CONTACT PERSON:

NAME

_____ (CON1FNAM)

_____ (CON1LNAM)

FIRST

LAST

PHONE () - () - ()

(CON1PHN)

CITY

_____ (CON1CITY)

STATE

_____ (CON1STAT)

ZIP _____
(CON1ZIP)

[Thank you very much for your cooperation. Your assistance has been very helpful.]

//LANDLINE SEGUE TEXT FOR 2nd HH INTERVIEW//

May I now please speak to _____ person, the _____ year-old who has also been selected to answer more questions about tobacco use and attitudes in Colorado?

///Ask CONFIRM2 if OTHERGUY = 01 ///

CONFIRM2

Hello, this is {INTERVIEWER NAME} and I'm conducting an important health study for the University of Colorado Denver. Earlier we/I spoke with another member of your household and //INSERT 2nd SELECTED RESPONDENT NAME// was randomly selected to participate. May I speak with //INSERT 2nd SELECTED RESPONDENT NAME//?

01 AVAILABLE/COMING TO THE PHONE

02 NOT AVAILABLE

///Ask CONSENT2 if CONFIRM2 = 01 ///

CONSENT2

This study will interview 12,000 smokers and non-smokers about tobacco use and attitudes in Colorado. While your participation is voluntary, your cooperation is very important to the success of this study. Your answers will be kept strictly confidential and will be used only for this research. You may choose not to answer any question or end the interview at any time. The interview takes about 15 minutes. This call may be recorded for quality control purposes. May I continue with the study?

[IF RESPONDENT WANTS TO SPEAK WITH SOMEONE AT CU, YOU CAN GIVE THE FOLLOWING NUMBER: Emily Burns at 303-724-3536.]

01 YES, CONTINUE

02 NOT AVAILABLE – INTERVIEW TO BE CONDUCTED IN ENGLISH

03 NOT AVAILABLE – INTERVIEW TO BE CONDUCTED IN SPANISH

///if CONSENT2 = 03 THEN ASSIGN THE RECORD A SPANISH TYPE///

///if OTHERGUY = 02 OR CONFIRM2 = 02 OR CONSENT2 = 02,03 THEN SHOW THIS SCREEN///

INTERVIEWER: IF THE OTHER RESPONDENT IS NOT AVAILABLE
PLEASE SUSPEND THIS ATTEMPT, AND TRY TO SET AN APPOINTMENT.

OTHERWISE, PLEASE HIT <enter> TO CONTINUE.

//CELL PHONE CLOSING //

Those are all the questions I have for you. I want to thank you very much for your time and participation. As a thank you, we would like to send you a \$10 Amazon.com® gift certificate. Or, if you prefer, we can donate \$10 to The Cancer League of Colorado” on your behalf.

01 Amazon //GO TO NOW OR LATER//
02 Charity // GO TO CHARITY THANK//
03 99 DECLINED INCENTIVE/REFUSED

//CHARITY THANK//

OK, \$10 will be donated to The Cancer League of Colorado” Thank you very much for your time and have a good day.

//NOW OR LATER//

INTERVIEWER IF ASKED: THE CODE IS SOMETHING YOU CAN USE ONLINE AT AMAZON.COM. IT'S LIKE A GIFT CERTIFICATE. WE JUST GIVE YOU THE UNIQUE CODE AND YOU ENTER THE CODE IN ONLINE WHEN YOU MAKE A PURCHASE AT AMAZON.COM)

- 01 Get it now (GO TO GET IT NOW)
- 02 Get it later (WILL GET DISP 062)
- 99 DECLINED INCENTIVE/REFUSED

GET IT NOW (IF 01 NOW) Ok. Your gift code is (XXX XXXXX—need to insert from gift code file THEN GO TO FINAL CLOSE)

(IF 02 LATER) No problem. Would you like us to text message the gift certificate or would you like to call us back at your convenience.

- 01 Text message (GO TO TEXT)
- 02 Call back when convenient

Text. We'll text you the gift certificate within 24 hours. Please let us know your carrier.

Do not read:

- 01 Alltel
- 02 AT&T (Cingular)
- 03 CellularOne
- 04 Centennial
- 05 Leap (Cricket)
- 06 MetroPCS
- 07 Nextel
- 08 Quest
- 09 Sprint
- 10 Suncom
- 11 T-Mobile
- 12 Unicel (Rural Cellular)
- 13 US Cellular
- 14 Verizon
- 15 None of these
- 98 Don't know
- 99 Refused

If Text=15, 98, 99 **GOTO** NOTEXT

NOTEXT. I'm sorry, we can't text message this provider. Would you like the number of the Amazon.com® gift certificate now or would you like to call us back at your convenience?

- 01 Get it now
- 02 Call back when convenient

(Call back). Please call us at 1-XXX-XXX-XXXX to get the gift certificate. It will be available for 30 days. (GO TO FINAL CLOSE)

(FINAL CLOSE) Thank you very much for your time and cooperation.

APPENDIX B: RESPONSE RATE FORMULA

Screening response rate:

$$RR3 = \frac{\text{Screening Completes}}{\text{Eligible} + e_u \times \text{Unknown}}$$

Household response rate (at least one completed interview):

$$RR3 = \frac{\text{Screening Completes}}{\text{Eligible} + e_u \times \text{Unknown}} \times \frac{\text{1st Completes}}{\text{Selected households}},$$

$$\text{where } e_u = \left(\frac{\text{Eligible}}{\text{Eligible} + \text{Ineligible}} \right)$$

Total response rate:

$$RR3 = \frac{\text{Screening Completes}}{\text{Eligible} + e_u \times \text{Unknown}} \times \frac{\text{1st} + \text{2nd Completes}}{\text{Selected respondents}},$$

$$\text{where } e_u = \left(\frac{\text{Eligible}}{\text{Eligible} + \text{Ineligible}} \right)$$

Screening Completes: Completed the screening (110+120+210+220+230+240+250+260+405a)

Completes: (110+120+210*0.32)

1st Completes: Completed or partially completed at least one interview in the household

2nd Completes: Completed or partially completed a second interview in the household

Eligible: All respondents with known eligibility status categorized as eligible
(110+120+210+220+230+240+250+260+270+280+405a)

Ineligible: All respondents with known eligibility status categorized as ineligible
(405b+410+420+430+440+450)

Unknown: All respondents with unknown eligibility status
(305+310+315+320+325+330+332+335+340+345+350+355+360+365+370)

Selected: (110+120+210+220+230+240+250+260)

Households: At least one respondent is selected for the full interview

Respondents: Total respondents selected for the full interview

Final Dispositions

1. Interview
 - 110 Complete
 - 120 Partial Complete (E1 is not blank but K1 is blank)

2. Eligible, Non-Interview
 - 210 Termination within questionnaire (a respondent was selected, asked B1 and gave a response other than “Don’t Know/Not sure” or “Refused”), but has not answered enough questions to be defined as a partial complete
 - 220 Refusal after respondent selection (This disposition is assigned to a hang-up or termination after respondent selection but before respondent has given a response other than “Don’t Know/Not sure” or “Refused” to one or more questions in section B)
 - 230 Selected respondent never reached or was reached but did not begin interview during interviewing period
 - 240 Selected respondent away from residence during the entire interviewing period
 - 250 Language problem after respondent selection
 - 260 Selected respondent physically or mentally unable to complete an interview during the entire interviewing period
 - 270 Hang up or termination after presence of adult recorded but before respondent selection (a disposition 270 was assigned if a respondent completed A2b or A4b but dropped off before the Household roster, A6veri1)
 - 280 Household contact after after after number of adults recorded (rostering) but before respondent selection (i.e. during screening)

3. Unknown Eligibility, Non-Interview
 - 305 Household members away from residence during entire interviewing period
 - 310 Hang-up or termination, housing unit, unknown if eligible respondent
 - 315 Household contact, eligibility undetermined (this was assigned if respondent didn’t get to A2b or A4b)
 - 320 Language problem before respondent selection
 - 325 Physical or mental impairment before respondent selection
 - 330 Hang-up or termination, unknown if private residence
 - 332 Contact, unknown if private residence
 - 335 Telephone answering device, message confirms private residential status
 - 340 Telecommunication technological barrier, message confirms private residential status
 - 345 Telephone answering device, not sure if private residence
 - 350 Telecommunication technological barrier, not sure if private residence
 - 355 Telephone number is no longer in service or has been changed
 - 360 No answer
 - 365 Busy
 - 370 On never call list

4. Not Eligible
 - 405 Not eligible for the survey:
 - a. Household not subsampled in Denver and Arapahoe

b. Household not eligible (out of state)

410 Household, no eligible respondent

420 Not a private residence

430 Dedicated fax/data/modem line with no human contact

440 Fast busy

450 Non-working/disconnected number