

2017 BRFSS Data Collection Protocol with Disposition Table

December 7, 2016



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Introduction

In 1984, the Centers for Disease Control and Prevention (CDC) initiated the state-based Behavioral Risk Factor Surveillance System (BRFSS)—a cross-sectional telephone survey that state health departments conduct monthly over landline telephones and, since 2011, cell phones; the states conduct the BRFSS survey with the use of a standardized questionnaire and the technical and methodologic assistance from CDC. BRFSS collects prevalence data among noninstitutionalized adult US residents regarding their risk behaviors and preventive health practices that can affect their health. Respondent data are forwarded to CDC to be aggregated for each state, returned with standard tabulations, and published at year's end by each state. In 2014, over 400,000 interviews were conducted in the states, the District of Columbia, and participating US territories and other geographic areas.

This document provides data collectors with a BRFSS overview and outlines the processes involved with calling, disposition-code assignment, and data submission. This document does not cover details of sampling and weighting, as they are not data-collectors' responsibility. Specific information regarding data quality, response and/or cooperation rates, or calling outcome can be found in the yearly Summary Data Quality Report released with the annual data set.

Find yearly data and support documents here: http://www.cdc.gov/brfss/data_documentation/index.htm.

Details of the data collection process are discussed in regularly scheduled conference calls and at the annual BRFSS meetings/training workshops. BRFSS encourages data collectors to participate in these events, as updating BRFSS data-collection protocol is a collective process that is strengthened when organizations and day-to-day stakeholders provide their input.

The BRFSS Process

The BRFSS questionnaire was developed in collaboration with CDC and public health departments in each of the states, the District of Columbia, and participating territories. Data derived from the questionnaire provide health departments, public health officials, and policy makers with behavioral and health status information that, when combined with mortality and morbidity statistics, guide the development of health-related policies and priorities as well as help decision makers address and assess strategies to promote good health. A finalized version of the questionnaire is sent to the states each year. CDC also provides computer-assisted telephone interviewing (CATI) programming to states, but they may opt to use their own CATI programming software using the final version of the BRFSS questionnaire as a guide. States may not change the skip patterns or wording of questions in the questionnaire but are free to create state-added questions that can be customized to states' individual needs (see below). In some instances, states may insert state-added questions into the questionnaire--with permission from CDC--when such questions fit into the context of extant topics/sections and do not impede the flow of the interview. Requests should be submitted to the state project officer or the survey methodologist on the Survey Operations Team.

Annual questionnaire construction

The BRFSS questionnaire comprises an **annual standard core**, which includes questions asked of respondents each year; a **biannual rotating core**, which includes questions asked only in even- or odd-numbered years; **optional modules**, which include standardized questions adopted verbatim by the states; and **state-added questions**, which states individually customized. Appendix A provides a **draft** copy of the 2017 BRFSS questionnaire, including modules with skip patterns. Data collectors will note that the 2017 questionnaire includes skip patterns for landline and cell phone interviews that administrators should follow when they are conducting interviews using a sample provided by CDC (see Sampling below).

Standard Core Questions: The portion of the questionnaire that is included each year and must be asked by all states. The core may include questions about emerging or “late-breaking” health issues. After 1 year, these questions are either discontinued or incorporated back into the standard core or become part of the rotating core or optional modules.

Rotating Core Questions: The portion of the questionnaire asked by all states on an every-other-year basis. These questions regularly appear in even- and odd-numbered years. States may use rotation core questions as optional modules in off-year questionnaires.

Optional Modules: Optional modules are sets of standardized questions on various topics that each state may select and include in its questionnaire. Once selected, a module must be used in its entirety and asked of all eligible respondents. If an optional module is modified in any way (e.g., if a question is omitted), then the questions will be treated as state-added questions (see below).

In order to achieve a wide range of data, states may choose to “split” samples in order to give different modules to each smaller group of participants. For example, if a state adopts a questionnaire that is too long to ensure respondent cooperation, a greater number of modules may be used if the state gives different ones to groups of 2,500 or more respondents. Some respondents, therefore, will answer the core questionnaire and one set of modules, while others answer the core questionnaire and a different set of modules. States are required to conduct at least 2,500 interviews for each of the versions of the questionnaire in order to have enough responses for weighting purposes. States create different questionnaire versions when they split modules among respondents. States may adopt up to three versions of the questionnaire, each including the core (with standard and rotating core questions) and a specified number of modules, which will differ by version. States must include modules on both landline and cell phone interviews. Versions must also be included in both samples.

State-added Questions: BRFSS encourages states to add their own extra questions to their questionnaire, so they can gather data on additional topics related to their specific health priorities. All questions included in the BRFSS, with the exception of state-added questions, are cognitively tested prior to inclusion in the questionnaire. It is up to each state to decide whether or not it will cognitively test its state-added questions before use. State-added questions may not be inserted into the text of the core questionnaire or optional modules without approval from BRFSS. States should contact their project officers to request insertion of state-added questions into text that has been approved for use by all states.

The wording of the questions in any part of the BRFSS, with the exception of state-added questions, is determined at the annual BRFSS meeting (in spring or early summer), where BRFSS state coordinators vote to adopt questions submitted by CDC programs. A governing group including state BRFSS coordinators, CDC staff and others known as the BRFSS Working Group, may add questions on emerging issues (such as the H1N1 flu questions added in 2009 and e-cigarette use in 2014). A field test of new questions, modules and those sections of the questionnaire affected by new questions is conducted after the state voting process. CDC then designs core components and optional modules and produces data processing layouts, while considering state priorities, potential funding, and other practical aspects. Minor changes in question wording and format may be made after the field test. The new BRFSS materials for the next surveillance year are then sent to the states, which may add their own questions that they have designed or acquired. A target of October 1 is set for finalization of the questionnaire for the upcoming year.

Data collectors should have the capacity to make modifications, including addition of questions, during the course of the year. In addition, data collectors must be capable of adjusting screening questions that determine eligibility during the course of the year.

Data Collection

Data collection follows a suggested BRFSS interviewing schedule; all calls for a given survey month should be completed in the same sample month if possible. In some cases samples begun in one month may be completed in the first 7-10 days of the next month. Up to 15 calling attempts may be made for each landline phone number and up to 8 for each cell phone number in the sample, depending on state regulations for calling and outcomes of previous calling attempts. Although states have some flexibility in distribution of calling times, *in general*, surveys are conducted using the following calling occasions:

- Conduct 20% of landline calling attempts on weekdays (before 5:00 PM)
- Conduct 80% of landline calling attempts on weeknights (after 5:00 PM) and weekends
- Conduct cell phone calling attempts during all three calling occasions (weekday, weeknight, and weekend), with approximately 30% on weekend calling occasions.
- Change schedules to accommodate holidays and special events.
- Make weeknight calls after 5:00 PM.
- Adhere to respondents' requests for specific callback/appointment times whenever possible.

Data collectors must develop and maintain procedures to ensure respondents' confidentiality, assure and document the quality of the interviewing process, and supervise and monitor the interviewers. **CDC does not authorize the taping of interviews.**

Each telephone number in the CDC-provided sample must be assigned a final disposition code to describe the result of calling the number:

- A completed or partially completed interview (see definitions in Appendix B) or
- A determination that:
 - A household was eligible to be included but an interview was not completed or
 - A telephone number was ineligible or could not have its eligibility determined.

The final disposition codes are then used to calculate response rates, cooperation rates, and refusal rates. The distribution of individual disposition codes and the rates of cooperation, refusal, and response are published annually in the Summary Data Quality Reports. BRFSS uses standards set by the American Association of Public Opinion Research (AAPOR) to determine disposition codes and response rates. All BRFSS disposition codes and rules for assigning disposition codes are provided in Appendix B: Disposition Table with Callback Rules. Given the myriad outcomes for assigning specific codes associated with technological barriers, additional guidance is provided in Appendix C: Understanding Coding for Technological/ Telecommunication Barriers. Data collectors must follow the rules for assigning disposition codes and train and monitor interviewers in the use of specific dispositions.

Survey Protocol

BRFSS sets standard protocols for data collection, in order to maintain consistency across states that permits state-to-state data comparison. Data collectors should follow the assignment of disposition codes provided in Appendix B: Disposition Table with Callback Rules. Disposition codes follow the format of 1000-1999 completed/partially completed; 2000-2999 non-completed interviews with eligible respondents/households; 3000-3999 non-completed interviews with unknown eligible persons/households; 4000-4999 ineligible numbers; 5000-5999 interim dispositions. A 2000 level disposition should not be assigned unless the interviewer is certain that both the household and respondent are eligible for the survey. Assigning incorrect disposition codes can lower response rates and efficient use of the sample. The following items are included in the BRFSS survey protocol:

1. All states must include the core questions and introductory scripts without modification. States may choose to add any, all, or none of the optional modules and state-added questions after the core component. Interviewers may not offer information to respondents on the meaning of questions, words, or phrases beyond the interviewer instructions provided by CDC and/or the state BRFSS coordinators. States may not insert state-added questions into the core component or into optional modules without permission. State coordinators should contact their CDC project officers to request the placement of state-added questions into text that has been approved for use by all states.
2. Systematic, unobtrusive electronic monitoring is a routine and integral part of monthly survey procedures for all interviewers. States may also use callback verification procedures to ensure data quality. Unless supervisory monitoring of 10% of all interviews is being routinely conducted, a 5% random sample of each month's interviews must be called back to verify selected responses for quality assurance. Recording calls as part of quality assurance is not part of the BRFSS methodology and recording interviews without respondent knowledge is not legal in all states. Data collectors should remember that cell phone numbers may reach respondents in

any state or country, where laws on recording calls may be different than in the state where the call originated.

3. An eligible household is defined as a housing unit that has a separate entrance, where occupants eat separately from other persons on the property, and that is occupied by its members as their principal or secondary place of residence. The following are non-eligible households: vacation homes not occupied by household members for more than 30 consecutive days per year, group homes, institutions, and (in the landline telephone sample) households in states other than the one conducting the BRFSS questionnaire. Persons in a state's cell phone sample who are residents of other states are eligible for interview. The state contacting the respondent should complete the core questionnaire and then provide the data to CDC for transfer to the appropriate state of the respondents' residence. **States should especially attempt to obtain the state of residence of respondents who indicate that they have moved and retained their cell phone number from another state. States should collect verbatim county information on persons who live in other states in order to permit the correct weight for the respondent after data are transferred.** Since 2012, persons living in college housing have been included as eligible respondents. Although it is rare to contact a college housing resident in the landline sample, this person would also be included as a single adult household. The BRFSS is a self-reported survey. If respondents report that they live in private residences, it is not the role of interviewers to question them. The only instances under which there is discussion of information on whether households qualify as private residences is when respondents initiate the question.

4. Eligible household members include all related adults (aged 18 years or older), unrelated adults, boarders/roomers, live-in au pairs or students and domestic workers who consider the household their home, even though they may not be home at the time of the call. College housing residents are treated as single adult households. Household members do not include adult family members who are currently living elsewhere.

5. Questions should be read verbatim. In many cases introductory phrases are provided which should also be read as written. Interviewer instructions are optional and can be read if the respondent is confused or needs additional information. Items in parentheses in statements are also optional and may be read for clarification. Interviewers should not offer their own interpretation of questions or response options.

6. Proxy interviews are not conducted in the BRFSS. For people interviewed on landline telephones, individual respondents are randomly selected from all adults living in a household and are interviewed in accordance with BRFSS protocol. Household members include all family members, domestic servants, and au pair or live-in students who have resided at the residence for at least 3 months. Cell phone interviews are conducted with respondents who answer the number called and are treated as one-person households.

7. An interview is considered complete if data are collected for all questions which would have normally been asked for any selected respondent. Partially completed interviews are defined as those where the first sections of the interview are completed and the portions of the demographic section which are used for weighting are also asked of the selected respondent in regular order of the questionnaire. For 2017, this would take the respondent through question

8.16. If the respondent does not provide substantive responses for weighting variables (that is, the respondent refuses to answer or responds that he/she does not know), imputed values will be generated and used only to assign weights. **If an interviewer codes a number of responses as “don’t know” or “refused” just prior to cut off in order to have an interview count as a partial complete, this will be noted by the CDC staff as potential falsification of data.**

States should monitor data collection to ensure that the percentage of partial completes is not greater than 10% of the number of completes. A large percentage of partial completes could result in missing data for variables that follow the demographic sections including all optional modules. The number of partial completes which are not part of the RFP may be higher, if the state has contracted with the data collector ONLY on the number of 1100 dispositions.

8. With the exception of verbally abusive respondents, eligible people who initially refuse to be interviewed may be contacted at least one additional time and given the opportunity to be interviewed. Preferably, this second contact will be made by a supervisor or a different interviewer. Some states have regulations on whether refusals should be called again and the manner of the refusal conversion. For example, a period of two days between the initial refusal and second attempt is often standard protocol. Data collectors should contact the state BRFSS coordinator to determine the state’s policy on calling back refusals.

9. States are required to give a final disposition for every number in the sample, usually within the same month of the sample. States should complete all calling on each monthly sample within that month. A few states receive and account for all calling on a sample on a quarterly basis rather than a monthly basis. Data collectors should contact the state BRFSS coordinator to verify whether the state is receiving a monthly or quarterly sample from CDC.

10. The BRFSS OMB number and burden statement must appear on the header page of all interviewer forms. The CDC will provide the header with the questionnaire each year. Please note that the interviewers do not need to read any part of the OMB number or burden statement to the respondents unless asked. The entire burden statement does not need to be read if the respondent is simply asking how long the interview will take. If the respondent asks for any information at any time about the authority by which information is being collected, it is imperative that the OMB approval information be available to the interviewer. The interviewer may then cite the OMB control information, which would allow the respondent to review the project plan online.

11. **CDC provides the states with a Spanish translation of the BRFSS questionnaire. Unlike the English version, states may change wording of the Spanish version in order to match local dialects.**

General callback and disposition coding rules are established by CDC (see Appendix B), and states are encouraged to adhere to them whenever possible. The calling rules are not universally applicable to each state. Data collectors contracted by the states should have the capacity to adhere to the calling rules listed below as well as those to in Appendix B.

1. **All cell phone numbers must be hand dialed.** New rulings by the FCC have called into question some previously standard practices of previewing numbers. Data collectors should seek legal advice if they are uncertain whether their practices are in any way contradictory to the new regulations. (NOTE: TCPA paragraph cut here).
2. Interviewers should be trained specifically for the BRFSS and retrained each year.
3. If possible, calls made to non-English-speaking households and assigned the interim disposition code of 5330 (household language barrier) should be attempted again with an interviewer who is fluent in the household language (e.g., Spanish).
4. States should maximize calling attempts as outlined in Appendix B. The maximum number of attempts (15 for landline telephone and 8 for cell phone) may be exceeded if formal appointments are made with potential respondents.
5. Calling attempts should allow for a minimum of 6 rings and up to 10 rings if not answered or diverted to answering devices.
6. The maximum number of attempts may be set by the states. CDC recommendations for the minimum number of attempts are 15 for landlines and 8 for cell phones.
7. All numbers must be assigned a final disposition. Data should not be submitted with interim dispositions.
8. Messages left on answering devices/voice mail devices should be left by interviewers. **Messages should never be left by any automated voice devices.** States may have their own standard scripts for messages, describing the reasons for the call and when respondents might expect a return call. Messages can be left after any attempt. It is not recommended that respondents be burdened by repeated messages. States should adopt protocols to leave one or two messages during the calling attempts for a single number during the calling period.

Using the BRFSS Sample

In some instances, states design samples within boundaries of sub-state geographic regions. States may determine that they would like to sample by county, public health district, or other sub-state geography in order to make comparisons of geographic areas with their states. To conduct the BRFSS, states get samples of telephone numbers from CDC. States then review their sampling methodology with a state statistician and CDC to make sure data collection procedures are in place to follow the methodology. States must consult with CDC before making changes to methodology. States must maintain sample phone numbers in files that are separate from responses, in order to maintain standards of respondent confidentiality.

The BRFSS uses two samples: one for landline telephone respondents and one for cell phone respondents. State BRFSS coordinators work with CDC to produce all samples. The CDC recommends that the range of completed cell phone interviews be a minimum of 40% to a maximum of 75% of total complete interviews. The 40-75% range of cell phone interviews is set to ensure the geographic distribution of the sample (since landlines samples can be geographically distributed across the state) and to ensure that the sample is demographically representative of the state. **Data collectors are ultimately responsible to states for the distribution between landline and cell phones.** Since landline telephones are often shared, household sampling is used in the landline telephone sample. Household sampling requires interviewers to collect information on the number of adults living in a residence and then select randomly from all eligible adults (see questionnaire). Cell phone respondents are treated as single adult households and therefore do not require household sampling. The samples are fully overlapping,

so that any eligible person in the landline frame may also be eligible in the cell phone frame. States receive the sample monthly or quarterly, approximately by the 15th. Note that the BRFSS is a sample with replacement. It is possible, therefore, for a single household/respondent to be eligible and appear in a sample more than once within a year. Some states eliminate duplicate (“de-dup”) numbers that appear within the same quarter. A state with sub state regions that represent small area is more likely to encounter repeat numbers in the sample. States that wish to send advance letters should request addresses with their regular landline sample. For states that send advance letters, mailing addresses are appended to landline telephone numbers. Addresses may not be attached to cell phone samples. Data collections should release all replicates (of 30 numbers) in the sample in the first week of each month. The table below provides the format for the landline and cell phone sample files received by the states.

Field Name	Size	Position	Format/Values/Explanation
Phone Number (AREACODS, PREFIXS, SUFFIXS)	22	1-22	9,1-NNN-NNN-NNNNv20171
Geographic Stratum (_GEOSTRS)	3	23-25	First position = 1 for Landline / 2= Cell phone Then States with no geographic strata=01 in each record. Others according to provided information.
Density Stratum (_DENST2S)	1	26	1=Listed number, 2=Not listed one-plus block, 3=Zero block, 9=Not applicable (GU, PR, VI).
Sequence Number (SEQNO)	10	27-36	A unique 10-digit number for a state for a year with year in the first four digits. For example: 2015000001.
Number of Records Selected From Stratum (NRECSELS)	6	37-42	Number of telephone numbers (eligible sampling units) selected from stratum.
Number of Records in Stratum (NRECSTRS)	9	43-51	Number of telephone numbers in the stratum from which sample was selected.
Precall [GENESYS-ID] Status (PRECALLS) Landline sample	1	52	1=To be called, 3=Non-working number, 5=Business phone. (Including GU, PR, VI) 4 = Cellular – PRO-T-S, 6 = Cellular - Interviewer
Precall [Cell-WINS Screening] Status (PRECALLS) Cell phone sample	1	52	1=Active, 3=Inactive, 7=Unknown Status
Replicate Number (SMONTH, REPNUM)	6	53-58	The first two digits, 01-12, represent months, the last four digits a sequential number

			starting with 0001 each month.
Replicate Depth (REPDEPTH)	2	59-60	A sequential number from 01-30 in each replicate.
State FIPS Code (_STATE)	2	61-62	FIPS code of assigned state.
County FIPS Code (ASGCNTY)	3	63-65	FIPS code of assigned county. Blank=GU, PR, VI.
County FIPS Code of Listed Number (LISTCNTY)	3	66-68	For listed numbers, FIPS code of the county in which number is located. For not listed numbers=999. Blank=GU, PR, VI, and cell phone sample
Number of Landline Assignments in 1K Blocks in Assigned County (NOHHCTY)	4	69-72	Number of Landline Assignments in 1K Blocks that are in assigned county. Blank=GU, PR, VI, and cell phone sample
NXX Type (NXXTYPE)	2	73-74	Blank
Number of Landline Assignments in 100 series bank (BLCKSIZE)	3	75-77	Number of landline assignments in hundred block=000-100. Blank=GU, PR, VI, and cell phone sample
Number of Landline Assignments in 1K Block (LSTHHPRE)	5	78-82	Number of Landline Assignments in 1K Block Blank=GU, PR, VI, and cell phone sample
Estimated Total Households in Prefix (TOTHHPRE)	5	83-87	BLANK
Core Based Statistical Area (CBSACODE)	5	88-92	99999=Not in an MSA. Blank=GU, PR, VI, and cell phone sample
Metropolitan Status Code (MSCODE)	1	93	1=In the center city of an MSA, 2=Outside the center city of an MSA but inside the county containing the center city, 3=Inside a suburban county of the MSA, 4=In an MSA that has no center city, 5=Not in an MSA. Blank=GU, PR, VI.
Rate Center Name (RCNAME) Cell phone only	30	94-123	Rate Center Name (RCNAME)
V&H Coordinate (VNHCOORD)	10	124-133	BLANK
Date Sample Generated (DATESMP)	10	134-143	mm/dd/yyyy

Pre-screening Process Used (PRESCRN)	1	144	0= Not screened 1=ID 2=ID Plus 3 = CSS, 4 = Cell
Date Sample Pre-screened (DATESCRN)	10	145-154	mm/dd/yyyy
Release Date of Active Prefix Database (PHNRLDAT)	10	155-164	mm/dd/yyyy Blank= cell phone sample
Release Date of Listed Phone Number Database (LSTRLDAT)	10	165-174	mm/dd/yyyy Blank=GU, PR, VI, and cell phone sample.
CLEC Number (CLEC)	1	175	1=Yes, 2=No. Blank=GU, PR, VI, and cell phone sample.
Replicate designated for inclusion in Multi-Mode Mail Survey and address match status (MSREPMCH) Landline only	1	176	Blank = All States
Time Zone	1	177	Eastern = 7, Central = 6, Mountain = 5, Pacific = 4, Alaska = 3, Hawaii =2 Blank= cell phone sample
Blank	1	178	Blank
Listed in one of the following Databases: InfoUSA, Experian, (DIRLST)	1	179	1=Yes, 2=No. Blank=GU, PR, VI, and cell phone sample.
Secondary Screening Flags	1	180	0/Undetermined/Residential 1/ No Answer 2/ Busy 3/ Fax/Modem 4/ Language Barrier 5/ Privacy Manager 6/ Residential Voice Mail 7/ Residence/Phone Answered 8/Cellular Number 9/Business/Non-Working Blank= cell phone sample
Indication of Address Matching Landline only	1	181	1=Matched 2=Not matched Blank=GU, PR, VI, and cell phone sample
Path variable (PATH) used to help identify which	2	182-183	10 = Default Genesys value Landline Survey Sample

questionnaire is used when there are dual questionnaires. (States may update this variable to use for multiple paths in split samples)			20 = Default Genesys value Cell Phone Survey Sample
Note: Monthly files will be sorted by stratum, replicate, and depth. The order of numbers within a replicate will be randomized before assignment of depth numbers. All numeric fields are right aligned and padded with leading zeros. All character fields are left aligned with trailing blanks.			

Each phone number is assigned a precall status to indicate whether the number should be called. States may opt to call landline telephone numbers with precall status >1 but are not required to do so. States may also choose not to call landline numbers with precall status =1 which have secondary screening status as fax/modem lines or are listed as “busy” by the precall screener if the number is taken from the unlisted portion of the sample. States are not required to call cell phone sample numbers with an “inactive” precall status, but may choose to do so. States should call all cell phone numbers with active and unknown precall status in the cell phone samples. Given that the precall status indicates the potential for reaching an eligible respondent, calling landline numbers with precall >1 or cell phone numbers with inactive precall status may reduce response rates. States may also use the secondary precall status to assign bilingual interviewers to numbers with language barrier precall assignments, or make extra efforts to reach numbers which have precall status indicating residence/household status.

The landline sample is taken from listed and unlisted numbers at a ratio of 1:1.5. During the first months of 2017, PHSB may change the ratio to 1:20 in response to declining accuracy of the landline sample.

States that request addresses may send advance letters to those households to alert them to the fact that they will be receiving calls and the nature of the survey. States may include a toll free number for potential respondents to inquire about the BRFSS. Studies have shown that the use of advance letters does improve response rates. However, the proportion of the landline sample that is accurately matched to addresses is declining. Currently about 40-60% of the landline sample is accurately matched to an address. Data collectors should speak to their BRFSS state coordinators about advance letters.

Samples for US territories differ from those from the states. BRFSS coordinators in US territories may deviate from the calling and sampling guidelines to fit the data needs of their jurisdictions. Data collectors should work closely with state BRFSS coordinators to ensure that the sample is properly managed. CDC will provide quarterly sample productivity tables on the upload/download site to alert the state coordinators of any problems with sample management.

Data collectors can track samples and productivity using the YTD Data Quality Reports (DQR) available with assigned logins on the upload site. The following table of contents lists the information available in the YTD Data Quality Reports as of August 2014. Changes in the information provided in the DQRs may change according to the needs of the data collectors and state coordinators.

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Summary Data Quality Reports are also available on the BRFSS website for previous years. States may compare their data productivity to that of other states in the summary reports, but will not have access to the YTD reports from other states.

Data Submission

CDC will provide a data layout file for monthly data submission. The BRFSS provides a data submission website to be used for uploading states' data and monitoring the progress of processing. Access to this site is limited and requires a login accepted by CDC. Details on data submission are included in Appendix D: Uploading BRFSS Data Using OneEdits. Note that 2016 was the first year that OneEdits software will be used for data submission, so procedures have changed recently. Data collectors should download and run edit fix programs from the upload site prior to submitting data. Errors in submitted data will delay processing and may result in data sets being returned to states for corrections.

State Pilot Projects Using Protocol Adjustments

At any time during the data collection process, states may make greater efforts to reach respondents than the protocols listed here. These efforts may include increasing the number of attempts, increasing the ring times, calling all numbers in the sample regardless of the precall status or increased interviewer monitoring or training. On occasion states may wish to make adjustments to the data collection protocol in order to test the efficiency of a new procedure. For example, in 2015, one state determined that the “next birthday” method might be a better procedure than random computer selection for the household selection process in the landline interview. Since this change did not change the statistical probability for selection, the protocol adjustment was approved and the change was made and tested by the state. States, and data collectors who wish to make protocol adjustments must have written approval from CDC in order to make adjustments. State coordinators should contact their project officers and the survey operations team at the Public Health Surveillance Branch of the Division of Population Health with full details of the protocol adjustment that they are seeking.

Appendix A: BRFSS Core Questionnaire (Draft)



2017

**Behavioral Risk Factor Surveillance System
Questionnaire**

******To be inserted later******

December 7, 2016

Appendix B: Disposition Table with Callback Rules

Definitions of terms	
Respondent	An adult who is contacted by an interviewer and who may be eligible for interview.
Calling attempt	An attempt is an effort to reach a potential respondent by dialing a phone number, even if the dialing does not reach or connect with a working phone line.
Complete	An interview in which all questions are complete, including all core and module questions which would be assigned to a selected respondent.
Partial complete	An interview in which the selected respondent has been asked all questions up to those which will be used for weighting. For the 2017 questionnaire this will include through question 8.16. Questions do not have to be answered substantively to be counted as asked (respondents may have provided answers of “do not know” or refused to answer questions).
Landline telephone	A telephone that is used within a specific location. Includes traditional household telephones, VOIP and internet phones connected to computers in a household.
Cell phone	A mobile device that is not tied to specific location for use and uses cell towers to connect users.
Selected respondent	An adult who is eligible for interview. For the cell telephone sample a selected respondent is an adult associated with the phone number who lives in a private residence or college housing within the US or territories covered by the BRFSS. For the landline telephone sample a selected respondent is the person selected for interview during the household enumeration section of the screening questions.

Calling occasions	There are three calling occasions: weekday (before 5:00 pm on a weekday); weeknight (after 5:00 pm on a weekday), and; weekend (any time on Saturday or Sunday).
Personal Cell phone	A cell phone that is used for personal calls. Cell phones that are used for both personal and business calls may be categorized as personal telephones and are eligible for interview. Telephones that are used exclusively as business phones are not personal telephones and, therefore, are not eligible for interview.
Private residence	A non-institutionalized residence in which adults persons aged 18 and over reside at least 30 days per year that has a separate entrance and cooking capabilities. It may also be college housing, such as a dormitory, fraternity or sorority house, campus sponsored housing or college family housing, or international student or visiting faculty housing. Personal RVs may be private residences. Group homes, military barracks, vacation homes that are not lived in for 30 days, or other temporary housing are not private residences. The determination of private residence is primarily made by the respondents. If the respondents indicate that they live in private residences, interviewers do not question their interpretation of their living situations.

<u>Disposition Code</u>	<u>Description</u>	<u>Definition</u>	<u>Range of Number of Attempts</u>	<u>Callback Rules</u>
1100	Complete	Assign if selected respondent completes questionnaire.	1-15 attempts	

			(landline) 1-8 attempts (cell phone)	
1200	Partial complete	Assign if selected respondent completes demographic questions that are used for weighting. For the 2016 questionnaire this will include through question 8.16.	1-15 attempts (landline) 1-8 attempts (cell phone)	Selected respondent may be called back to fully complete the interview. Give final disposition on 15 th or subsequent call attempt even if there is only one occurrence of a refusal or termination.
2111	Household level refusal (landline telephone only)	Assign for landline telephone only if refusal after confirmation of reaching household telephone line used by adults in correct state but before household selection and core BRFSS Q1 in landline telephone. <u>Refusal can be from any member of the household (note: if refusal by selected respondent use code 2112).</u> Automated messages should not count as refusals.	1-15 attempts (landline) 1-8 attempts (cell phone)	May be assigned after one attempt if hard refusal or special circumstance. Assign after maximum number of attempts and at least one interim disposition of 5111 (household level refusal).
2112	Selected respondent refusal	Assign if <u>refusal by selected respondent</u> before core BRFSS Q1 is answered by landline telephone. Automated messages should not count as refusals. Assign if cell phone respondent refuses after number determined to be personal phone and respondent confirms living in private residence or	1-15 attempts (landline) 1-8 attempts (cell phone)	May be assigned after one attempt if hard refusal or special circumstance. Assign after maximum number of attempts and at least one interim disposition of 5112 (respondent refusal).

		college housing.		
2120	Break off/ termination within questionnaire	Assign if selected respondent has completed portions of Core BRFSS with responses other than “don’t know” or “refused” and terminates/breaks off prior to demographics section. (NOTE: If respondent completes questionnaire through weighting questions, code 1200.)	1-15 attempts (landline) 1-8 attempts (cell phone)	May be assigned after one attempt if hard refusal or special circumstance. Assign after maximum number of attempts with at least one interim disposition of 5120 (break off/termination).
2210	Selected respondent never available	Assign if selected respondent is never available during sample period. Selected respondent may not have been contacted or contacted and asked to be called later. Includes repeated unsafe location for interview, respondent away during period of interview, respondent not available for appointment. Includes selected respondents who die during interview period.	1-15 attempts (landline) 1-8 attempts (cell phone)	Give final disposition when notified or after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline telephone. Cell phone respondents may be called up to 8 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of calling attempts with at least one interim disposition of 5100 (appointment), or 5560

				(unsafe location).
2220	Household answering device (landline telephone only)	Assign if repeated contact with answering device that confirms residential/non business number (landline telephone only). The answering device gives a message confirming private residence by using the words “home,” “family,” “residence,” or “house” or by using family name in the message (landline telephone only). Due to potential for cell phone answering devices to be out-of-sample and/or not be connected to eligible respondents, <u>do not assign this code to cell phone sample numbers.</u> For cell phone numbers use code 3140 (Answering device, unknown if eligible residence/respondent).	6-15 attempts	Give final disposition after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline telephones. Assign after maximum number of calling attempts with at least one interim disposition of 5220 (answering device, confirms residence).
2320	Selected respondent physically or mentally unable to complete interview	Assign if selected respondent is unable to complete interview due to physical or mental impairment. This includes temporary conditions such as bereavement, which will last beyond the interview period.	1-6 attempts	Assign the first time a <u>selected respondent</u> is contacted or is described by someone else as physically or mentally incapable of completing survey or the second time a respondent who is physically or mentally impaired is contacted.
2330	Language barrier, selected respondent	Selected respondent does not speak English or other language	1-6 attempts	Assign the first time a <u>selected respondent</u> is

		for which interviewers are available. (NOTE: If language barriers prevent completion of respondent selection, assign code 3330 (language barrier, physical or mental impairment).		contacted or is described by someone else as not speaking English or other language (i.e. Spanish) for which interviewers are available.
3100	Unknown if eligible	Assign if hang up or call back request without confirming private residence/college housing or age of respondent (landline telephone and cell phone).	1-15 attempts (landline) 1-8 attempts (cell phone)	Give final disposition after second hang-up / call back request / termination or when a first time hang up will not be called back because of hard refusal or special circumstances and when household eligibility is NOT established . If the first occurrence is on 15 th attempt, give final disposition. Assign after maximum number of attempts with at least one interim disposition of 5050 (hang up, unknown if housing unit).
3130	No answer	Assign if telephone rings normally but no one answers.	6-15 attempts	Give final disposition after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline telephones. Cell phone respondents may be called

				up to 8 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with plurality of interim dispositions of 5130 (no answer).
3140	Answering device, unknown whether eligible	Assign if a mailbox is full or not yet established. Assign if answering device leaves open the possibility that the telephone number is not a residence or that the respondent is not eligible due to age.	10-15 attempts for landline telephones; up to 8 attempts for cell telephones	Give final disposition after at least 5 calling occasions of no more than 3 attempts with at least 3 weekday, 3 weeknight and 3 weekend calls for landline telephones. Cell phone respondents may be called up to 8 times, with at least 2 weekday, 2 weeknight, and 2 weekend attempts. Assign after maximum number of attempts with plurality of interim dispositions of 5140 (answering device, unknown if eligible residence or respondent).
3150	Telecommunication barrier	Assign if call blocking, call ID requirements or other respondent initiated block device leaves open the possibility of the number reaching an eligible household and/or respondent. Assign if call	1-6 attempts	Give final disposition after up to 3 calling occasions of no more than 2 attempts with at least 2 weekday, 2 weeknight, and 2 weekend calls for landline

		forwarded to other number and there is some potential for reaching household or actual respondent at later time.		telephones. Cell phone respondents may be called up to 6 times, with at least 2 weekday, 2 weeknight and 2 weekend attempts. Assign after maximum number of attempts with at least one interim disposition of 5150 (telecommunication barrier) and all others noncontact.
3200	Household, not known if respondent eligible	Assign for landline telephone sample if private residence confirmed without selecting respondent. (NOTE: If contact is made and <u>household eligibility is unknown</u> , use code 3100). Contact with vacation home may apply. Contact with household where residents are away for interview period may apply. Assign for cell phone if contact is made with household resident without determining whether cell phone number and respondent are eligible.	1-15 attempts (landline) 1-8 attempts (cell phone)	Give final disposition after second hang-up/ termination or when a first time hang up will not be called back because of hard refusal or special circumstances and when respondent eligibility is NOT established . If the first occurrence is on 15 th attempt, give final disposition. Assign after maximum number of attempts with at least one interim disposition of 5050 (hang up, unknown if respondent eligible).
3322	Physical or mental impairment (household level)	Assign if physical or mental impairment prevents determination of private residence or prevents determination of eligibility of	1-6 attempts	Assign after maximum number of attempts with at least one interim disposition of 5320 (physical or mental

		household or resident. This is a household level assignment. If selected respondent is physically or mentally impaired, assign 2320 after first attempt.		impairment).
3330	Language barrier, (household level)	Assign if language barrier prevents determination of private residence or prevents determination of eligibility of household or resident. This is a household level assignment. If selected respondent has language barrier assign 2330 when informed. Information may come from respondent or other household member.	1-6 attempts	Assign after maximum number of attempts with at least one interim disposition of 5330 (household language barrier). Do not assign if there are interviewers within the calling center who could complete the interview in language spoken by household (i.e. Spanish).
3700	On never call list	Assign only if supervisor can determine that respondent/ household is on never call list. Interviewer should not assign based on respondent information. (NOTE: If respondent insists that he/she is on never call list assign household level refusal (2111) or respondent refusal (2112).	No attempt	Assign with confirmation by supervisor. Interviewer should not assign based on respondent information.
4100	Out of sample	Assign if out of state for landline telephone or out of country for cell phone. Assign if indication that number reaches vacation home or household members are not living in home during interview period. (NOTE: If contact is made with	1-15 attempts (landline) 1-8 attempts (cell phone)	Assigned as soon as sample ineligibility determined. This should take priority over other final dispositions.

		respondent who indicates that they have been reached at their vacation home where they live for at least 30 consecutive days per year, interview can continue).		
4200	Fax/data/modem	Assign if call reaches fax or data line without human contact.	1-6 attempts	May be assigned to landline unlisted sample with secondary precall status of fax. May be assigned after one attempt. If states choose to use 6 attempts, give final disposition after recommendation for 3 calling occasions with 2 weekday, 2 weeknight and 2 weekend calls for landline telephones. If states choose to use 6 attempts, cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight, and 2 weekend attempts. If 6 attempts are used, assign after maximum number of attempts with at least one interim disposition of 5200 (fax/data/modem) and all others noncontact with any person.
4300	Nonworking number/ disconnected	Assign if tritone. Assign if operator message of nonworking number.	1-6 attempts.	May be precall assigned (for both landline and cell

		<p>States may choose to assign for temporary nonworking number message on first attempt or after repeated temporary nonworking number messages. Assign if “number changed” message. Assign if correctly dialed number rings to incorrect number. Assign if respondent reports that connection has been made to wrong number.</p> <p>A number that does not accept incoming calls (such as a hospital line only used for outgoing calls)</p>	<p>Do not call more than 6 attempts.</p>	<p>phone). May be assigned after one attempt. If states use 6 attempts, give final disposition after recommendation for 3 calling occasions with 2 weekday, 2 weeknight, and 2 weekend calls for landline telephones. Cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight, and 2 weekend attempts. Assign after maximum number of attempts with at least one interim disposition of 5400 (technological barrier), 5300 (possible nonworking) or 5550 (busy) and all others noncontact.</p>
4400	Technological Barrier	<p>Assign if repeated busy, fast busy or circuit busy messages. Assign if repeated ambiguous operator messages. Assign if repeated poor audio quality. Assign if number repeatedly does not connect.</p> <p>Assign if number reaches a retrieval or connectivity system (such as Skype or OnStar).</p>	<p>1-6 attempts. Do not call more than 6 attempts.</p>	<p>May be assigned to landline unlisted sample with secondary precall status of busy. May be assigned after one attempt. Assign as soon as interviewer reaches number resulting in tritone. If states use 6 attempts, give final disposition after recommendation for 3 calling occasions with 2</p>

		Assign if cell phone respondent is outside calling area. Assign if respondent is unable to receive calls. DO NOT assign if answering device (which permits leaving messages) is reached.		weekday, 2 weeknight, and 2 weekend calls for landline telephones. Cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight, and 2 weekend attempts. Assign after maximum number of attempts with interim dispositions of 5200 (fax/data/modem), 5400 (technological barrier), 5300 (possible nonworking) and/or 5550 (busy) and all others noncontact.
4430	Call forwarding / pager	Assign if <u>message</u> indicates number has been forwarded. Assign if number reaches a pager. Assign if connection produces series of beeps. NOTE: Do not select respondents from landline household or location that is different from the original number. Do not enumerate the number of adults at location which is different from original number. <u>However, landline respondent may be interviewed if number has been temporarily forwarded and the respondent is still living at location</u>	1-6 attempts. Do not call more than 6 attempts.	May be assigned after one attempt. May give final disposition after respondent or automated message informs that the number has been forwarded after multiple attempts. May give final disposition after series of beeps indicates a pager has been reached. If states use 6 attempts, give final disposition after recommendation for 3 calling occasions with 2 weekday, 2 weeknight, and 2 weekend calls for landline

		<u>of original number</u> . Cell phone respondents who have forwarded their numbers may also be interviewed.		telephone. Cell phone respondents may be called up to 6 times, with recommendations for 2 weekday, 2 weeknight, and 2 weekend attempts.
4450	Cell phone (landline telephone only)	Assign if landline telephone sample number connects to cell phone or if sample indicates that a number in the landline telephone sample has been ported to a cell phone.	1-15 attempts (landline) 1-8 attempts (cell phone).	Can be precall assigned. Given final disposition when informed. This disposition should take priority over other possible final dispositions for the landline telephone sample. This disposition code should be pre-assigned to precall status code which indicates cell phone in the landline telephone sample.
4460	Landline telephone (cell phone only)	Assign if cell phone sample number connects to a landline telephone.	1-15 attempts (landline) 1-8 attempts (cell phone).	Can be precall assigned. Given final disposition when informed. This disposition should take priority over other possible final dispositions for the cell phone sample.
4500	Non-residence	Assign if business, government, or other organization. For cell phone, assign if telephone is used exclusively for business purposes.	1-15 attempts (landline) 1-8 attempts (cell phone)	Given final disposition when informed. This disposition should take priority over other possible final dispositions. This disposition should be assigned to numbers with a

				precall status of 5.
4510	Group home	Assign if respondent identifies number as reaching a group home, prison, halfway house, nursing home or hospital. College dormitories, graduate student housing, sorority/fraternity housing, or other college provided housing is not defined as group home. Persons living in college housing are eligible for interview.	1-15 attempts (landline) 1-8 attempts (cell phone)	Given final disposition when informed. This disposition should take priority over other possible final dispositions.
4700	Household, no eligible respondent	Assign if child telephone (landline telephone or cell phone). Assign if landline telephone household without eligible respondent.	1-15 attempts (landline) 1-8 attempts (cell phone)	Given final disposition when informed. This disposition should take priority over other possible final dispositions.
4900	Miscellaneous, non-eligible	Assign for null numbers, special data circumstances only. May be assigned if data are believed by state coordinator or data collection supervisor to be falsified or in error. Notify CDC when this code is used.	1-15 attempts (landline) 1-8 attempts (cell phone)	May be assigned after one attempt. Assign only with supervisor approval.
5050	Unknown whether eligible	Respondent hangs up or refuses before establishing eligibility. <u>The state location question is not needed to establish eligibility for cell phone respondents.</u>		Give interim disposition when this occurs. Call back after an interval of at least one day until maximum call attempts are reached.
5100	Appointment	Respondent asks for an appointment or asked to be called at some other time. Assign if child		Schedule a callback for appropriate time.

		answers the phone and does not get an adult to come to the phone. Appointments may be formal or informal statements that the respondent is temporarily not able to complete the interview from household members or selected respondent.		
5111	Household level refusal (landline telephone only)	Assign for landline telephone only if refusal after confirmation of reaching household phone line used by adults in correct state but before core BRFSS Q1 in landline telephone. Refusal can be from any member of the household (note: if refusal by selected respondent, use code 2112). Automated messages should not count as refusals.		Give interim disposition when this situation occurs. Call back after an interval of at least one day. May assign final disposition of 2111 if hard refusal.
5112	Selected Respondent refusal: hang up or termination	Assign if refusal by selected respondent before Core BRFSS Q1 in landline telephone. Automated messages should not count as refusals. Assign if cell phone respondent refuses after number determined to be personal (nonbusiness) phone and respondent confirms living in private residence or college housing.		Give interim disposition. Schedule callback for as long as practical for up to two weeks after initial refusal.
5120	Break off / termination in questionnaire	Assign after respondent completes through Core BRFSS Q1 with an		Give interim disposition when this situation occurs.

		answer other than “don’t know/not sure” or “refused” but breaks off prior to end of demographic section.		Call back after an interval of at least one day.
5121	Call dropped	Assign for cell phone respondent if call is dropped.		Give interim disposition when this situation occurs. Call back may occur immediately or rescheduled after an interval of one hour.
5130	No answer	Assign if number rings normally without answer.		Give interim disposition when this occurs. Call back after an interval of at least one hour until maximum call attempts are reached.
5140	Answering device, unknown whether eligible	Assign if a mailbox is full or not yet established. Assign if answering device leaves open the possibility that the telephone number is not a residence or that the respondent is not eligible due to age.		Give interim disposition when this occurs. Call back after an interval of at least one hour until maximum call attempts are reached.
5150	Telecommunication barrier	Assign if call blocking, call ID requirements or other respondent initiated block device leaves open the possibility of the number reaching an eligible household and/or respondent. Assign if call forwarded to other number and there is some potential for reaching household or actual respondent at later time.		Give interim disposition when this occurs. Call back after an interval of at least one hour until maximum call attempts are reached.

5200	Fax/data/modem	Assign if number connects to data or fax line without human contact.		States may assign final disposition of 4200 at any attempt, including the first attempt. If states choose to call up to 6 attempts, give interim disposition and schedule callback after an interval of at least one day.
5220	Answering device, confirms residence (landline telephone only)	The answering device gives a message confirming private residence by using the words "home," "family," "residence," or "house" (landline telephone only). Due to potential for cell phone answering devices to be out-of-sample and/or not be connected to eligible respondents, do not assign this code to cell phone sample numbers.		Give interim disposition when this occurs. Call back after an interval of at least one hour until maximum call attempts are reached.
5300	Possible nonworking	Assign if message indicates number might be nonworking. Assign if recorded message indicates number is temporarily out of service. Assign if message indicates telephone number cannot be reached at this time. Assign if recording indicates that the number is for outgoing calls only (such as a hospital line for outgoing calls only).		States may assign final disposition of 4300 at any attempt including the first attempt. If states choose to call up to 6 attempts, give interim disposition and schedule callback after an interval of at least one hour.
5320	Physical or mental impairment	A household respondent or selected respondent is temporarily		Give interim disposition when this occurs. Call back

		unable to be interviewed due to physical or mental impairment. NOTE: If <u>selected respondent</u> has permanent physical or mental impairment that renders him/her unable to complete the interview, assign final disposition of 2320 (physical or mental impairment) as soon as informed.		after an interval of at least one day until maximum call attempts are reached.
5330	Language barrier	Assign if a respondent who is not the selected respondent does not speak English or other language for which an interviewer is available. (NOTE: If <u>selected respondent</u> does not speak English or language for which there is an interviewer available, give final disposition of 2330 as soon as informed.)		Give interim disposition when this occurs. Call back after an interval of at least one day until maximum call attempts are reached.
5400	Technological barrier	Assign if fast busy or circuit busy messages. Assign if ambiguous operator messages. Assign if number reaches a retrieval or connectivity system (such as Skype or Onstar). Assign if poor audio quality. Assign if number does not connect. Assign if cell phone respondent is outside calling area. Assign if		States may assign final disposition of 4400 at any attempt. If states choose to call up to 6 attempts, give interim disposition and schedule callback after an interval of at least one day.

		respondent is unable to receive calls. DO NOT assign if answering device (which permits leaving messages) is reached.		
5550	Busy	Assign if number produces normal busy (not fast busy) signal.		States may assign final disposition of 4400 at any attempt. If states choose to call up to 6 attempts, give interim disposition and schedule callback after an interval of at least one hour.
5560	Unsafe location/ activity for interview	Assign if respondent indicates he/she unable to continue due to safety concerns. May be assigned to numbers in cell phone or landline phone sample.		Give interim disposition when this occurs. Schedule a callback time or call back after an interval of at least one hour until maximum call attempts are reached.
5700	Supervisor attention	Assign if special circumstances require supervisor attention		Assign only for special circumstances.
5900	Null attempt	Assign only with supervisor approval for special data circumstances.		Assign only with supervisor approval for special data circumstances.

Appendix C: Understanding Coding for Technological / Telecommunication Barriers

Introduction

The Ci3 2015 BRFSS survey programming includes four-digit disposition codes. Disposition code changes resulted from the move toward the standards of the American Association of Public Opinion Research (AAPOR), the increased diversity of types of telephones in the sample, and the rapid changes in telephone usage.

This document provides a quick overview of the differences between Technological Barriers and Telecommunication Barriers, and Phone Circuit Messages and Answering Device Messages. It also provides examples of Phone Circuit messages and Answering Device messages with comments on their proper coding. The number and variety of messages that phone companies use are changing rapidly. The lists provided here are not comprehensive, but they are intended to give an overview of coding for commonly heard messages. This list was developed following discussions with data collectors at the 2013 BRFSS conference, and amended after discussions in 2015.

Definitions of Technological Barriers, Telecommunication Barriers, Phone Circuit Messages and Answering Devices

One challenge with BRFSS disposition codes is the differentiation between a Telecommunication Barrier [5150] and a Technological Barrier. [5400]. The differences between these codes are based on whether the respondent initiates the barrier (Telecommunication Barrier) or the barrier is due to something outside of the control of the respondent (Technological Barrier). Technological Barriers may be due to the carrier or problems in the circuits or with the type of telephone. Technological barriers may also be due to a connection to a system that is not used as a phone, but a connectivity system itself, such as Skype.

Keep in mind that a Technological Barrier will be coded as ineligible while a Telecommunication Barrier is coded as unknown eligibility. Also remember that clear messages for non-working numbers should be coded as final disposition nonworking number (4300) or possible nonworking number (interim code 5300). Personal answering devices should not be coded as a Technological Barrier.

Telecommunication Barriers vs. Technological Barriers

Technological Barrier (5400 or 4400): A Technological Barrier is either:

- a) a telephone # that does not behave like a telephone line but instead acts like some other device (pager, alarm system, etc.); or
 - b) a NON-connecting telephone line that a telephone owner cannot answer (fast busy, circuit busy, etc.);
 - c) a retrieval or connectivity system (such as Skype or Onstar).
- or
- c) a line with an ambiguous phone circuit message.

Telecommunication Barrier (5150 or 3150): A Telecommunication Barrier is a device or service on the end of a telephone line put by the telephone line owner to block incoming calls. This type of barrier includes call blocking devices or requirements for codes prior to connection but does not include personal answering devices (such as voice mail). Telecommunication Barriers result from screening by potential respondents NOT by telephone companies.

Code a result as a telecommunication barrier only when there is assurance that the respondent put the block on the phone line. Otherwise, code the call as a technological barrier.

Interviewers often encounter messages from a phone company, or a phone circuit message. Phone circuit messages are not specific to a potential respondent and DO NOT ALLOW INTERVIEWERS TO LEAVE MESSAGES. Answering devices, on the other hand, do allow for interviewers to leave messages, unless the mailbox is full. Answering devices are set up by respondents or are specific to their telephone numbers. Even if a recorded message is heard on the answering device, it is still specific to that number and should be coded appropriately.

Phone Circuit Messages vs. Answering Devices

Phone Circuit Messages: A phone circuit message is produced by a telephone company. It is not specific to a potential respondent. Phone circuit messages do not permit interviewers to leave messages for potential respondents. Phone circuit messages may result in technological barrier dispositions (5400 or 4400), nonworking number dispositions (5300 or 4300) or other ineligible dispositions.

Answering Devices: Answering devices must allow interviewers to leave messages or indicate that a specific mailbox is full. An answering device is specific to a potential respondent, even if it is a recorded message. For example, a recording which indicates that the interviewer has reached a specific number and allows the interviewer to leave a message is an answering device, not a phone circuit message. Answering devices may indicate that the number dialed is a household in the landline telephone sample. Codes for answering devices are 5220/2220 for landline answering devices which are known to be households and 5140 and 3140 when the answering device is in the cell phone sample or when it is not known that the answering device is connected to an eligible household.

Code a result as an answering device only if the interviewer has the potential to leave a message (or if the mailbox is full). Do not code a household answering device for a number in the cellular telephone

Examples of Messages and Coding Suggestions

Sometimes it is difficult to tell if a number is non-working or if there is a technological barrier. If the number is identified as purely non-working (you get an operator message that says it's non-working) then use a non-working disposition code (either final non-working [4300] or possible non-working [5300]). CATI centers should define how strong the message needs to be to decide between final [4300] and possible [5300] non-working. The table below illustrates some common phone circuit messages that have been reported by states in the recent months. We have provided suggested coding for each message. This list is not exhaustive and it is likely that data collectors will continue to hear ambiguous messages in the future. Keep in mind the general rule that technological barriers are outside the control of the respondents, while telecommunication barriers are specifically placed by the respondents to block calls.

Phone Circuit Message	Comment	Suggested Coding
You have reached the (XXX) Telecom voice messaging service. If you have a mailbox on this system and would like to access it now, enter your 10-digit phone number, then press pound.	This is a number to a voicemail service, not a household.	4500--Non-residence
Tritone with and/or without a message	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
The number you have reached is not in service at this time.	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
At the subscriber's request, this phone does not accept incoming calls.	Although this may appear to be a block, our experience with this message is that it is a hospital or group home where the phone places outgoing calls only.	5300--Possible Non-working 4300--Nonworking
Welcome to [cell phone carrier]. The number you have dialed is unassigned.	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
We're sorry; your call cannot be completed as dialed. If you feel you have reached this recording in error, please check the area code and the number and try your call again.	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
We're sorry. Your call cannot be completed as dialed. Please check	This message indicates that the number may not be a working	5300--Possible Non-working 4300--Nonworking

the number and dial again or call your operator to help you.	number.	
The number you are trying to call is not reachable.	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
Your call has been connected to a vacant number series. Please check the number and dial again or call an operator to assist you.	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
The number you dialed is not a working number. Please check the number and dial again.	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
The number or code you have dialed is incorrect. Please check the number or code and try again.	This message indicates that the number may not be a working number.	5300--Possible Non-working 4300--Nonworking
The mobile customer you have dialed has turned the unit off or is outside its service area.	Note that this message indicates that the call may not be blocked by the respondent but by the lack of phone coverage; therefore, this message still may be coded as a technological barrier.	5400--Technological Barrier 4400--Technological Barrier
The subscriber you have dialed is not available or has traveled outside the coverage area. Please try you call again later.	Note that this message indicates that the call may not be blocked by the respondent but by the lack of phone coverage. Therefore this message still may be coded as a technological barrier.	5400--Technological Barrier 4400--Technological Barrier
The person you are calling cannot accept calls at this time. We're sorry for any inconvenience this may cause.	The potential respondent could not answer this call, even if he/she wanted to; therefore, it is a technological barrier.	5400--Technological Barrier 4400--Technological Barrier
The mobile number you dialed is unavailable. Please try your call again later.	The potential respondent could not answer this call, even if he/she wanted to therefore it is a technological barrier.	5400--Technological Barrier 4400--Technological Barrier
Welcome to (cell phone carrier). The wireless customer you called is not available at this time. Please try your call again later.	The potential respondent could not answer this call, even if he/she wanted to; therefore, it is a technological barrier.	5400--Technological Barrier 4400--Technological Barrier
The person you are trying to reach is not accepting calls at this time. Please try your call again later.	The potential respondent could not answer this call, even if he/she wanted to therefore it is a technological barrier.	5400--Technological Barrier 4400--Technological Barrier
The subscriber is off line. Please	The potential respondent could	5400--Technological Barrier

call again later.	not answer this call, even if he/she wanted to; therefore, it is a technological barrier.	4400--Technological Barrier
The person you have called is not available right now. Please try again later.	The potential respondent could not answer this call, even if he/she wanted to therefore it is a technological barrier.	5400--Technological Barrier 4400- Technological Barrier
The party you are calling is currently unavailable.	The potential respondent could not answer this call, even if he/she wanted to; therefore, it is a technological barrier.	5400--Technological Barrier 4400--Technological Barrier
The person you have dialed is not able to receive calls at this time.	The potential respondent could not answer this call, even if he/she wanted to; therefore, it is a technological barrier.	5400--Technological Barrier 4400- Technological Barrier
The (cell phone carrier) number you dialed does not subscribe to voicemail services.	This appears to be a working number without voicemail set up.	5130--No Answer 3130--No Answer
The number you have reached has not yet set up voicemail services.	This appears to be a working number without voicemail set up.	5130--No Answer
The mobile customer you have dialed has turned the unit off.	Because this is a clear message that the call has been blocked by an action of the respondent, it is a telecommunication barrier.	5150--Telecommunication Barrier 3150--Telecommunication Barrier
Please enter your PIN to be connected.	Because this is a clear message that the call has been blocked by an action of the respondent, it is a telecommunication barrier	5150--Telecommunication Barrier 3150--Telecommunication Barrier

An answering device is differentiated from a phone circuit message in that it offers the interviewers the possibility to leave a message. In some cases, the answering device indicates that the number dialed has reached a residence. In other cases, messages from answering devices are less specific or seem to indicate that the answering device is attached to a business. Care should be taken to ensure that coding from answering device messages is accurate. Moreover, messages from cell phone sample answering devices are coded differently in some cases than are messages from landline sample answering devices. As in the past, assigning a disposition code for a message from an answering device before the household selection is complete will cause a prompt to be displayed. This prompt asks if the message includes “home,” “house,” “family,” “residence” or a family name. It is important to answer this question correctly.

The table below explains the coding for the four answering device codes.

Table 2
Assigning Codes for Answering Devices

Message	Comment	Code
The message indicates that the interviewer has reached a household number in the landline telephone sample. The message may include the word “residence” “home” “family” “household” or list the parents’ and children’s names.	Use this code only for the landline telephone sample. Due to potential for cell phone answering devices to be out-of-sample, do not use this disposition code for cell phone sample numbers.	2220--HH Answering device 5220--HH Answering device
The message does not indicate that the number is a household in the landline telephone sample. For cell phone sample numbers use this code on all answering devices where you can leave a message.	Assign if answering device permits the interviewer to leave a message, without indication of whether the number is connected to a household or business. Assign if answering device is reached on the cell phone sample.	3140--Answering device, unknown whether eligible 5140--Answering device, unknown whether eligible
The answering device indicates that the mailbox is full without indication of household status in the landline telephone sample number. Use this code for all cell phone answering devices where the mailbox is full.	Even though the interviewer cannot leave a message on this call, there is still potential for leaving a message on this device. Follow rules for household status on landline telephone devices.	2220--HH Answering device (LL only) 5220--HH Answering device (LL only) 3140-Answering device, unknown whether eligible 5140- Answering device, unknown whether eligible

Appendix D: Uploading BRFSS Data Using OneEdits

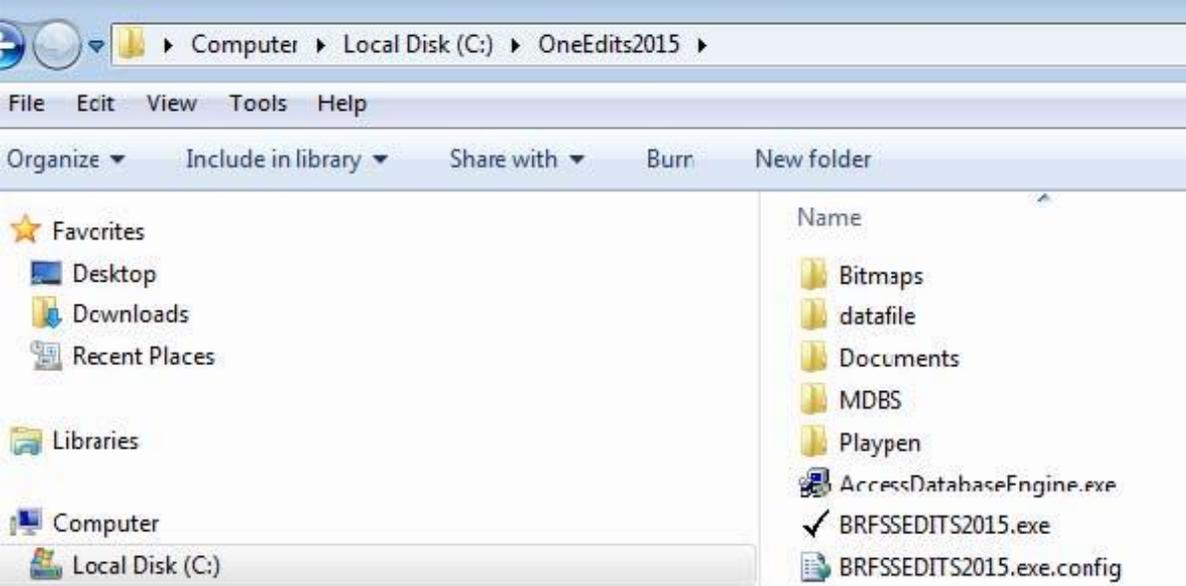
Using OneEdits 2015



New Features of OneEdits2015

-  Landline and Cell Phone survey in one software
-  Includes a feature that allows 'Resume Editing'
-  Allows Users to "Hide Errors"
 - Help in temporarily suppressing errors (avoid crowding) to focus on other problems
 - Can be reactivated
-  Global field value replacement
 - Value of a particular field across the dataset can be replaced in one action
-  Appropriate error messages
 - Allows users to fix problems at their end

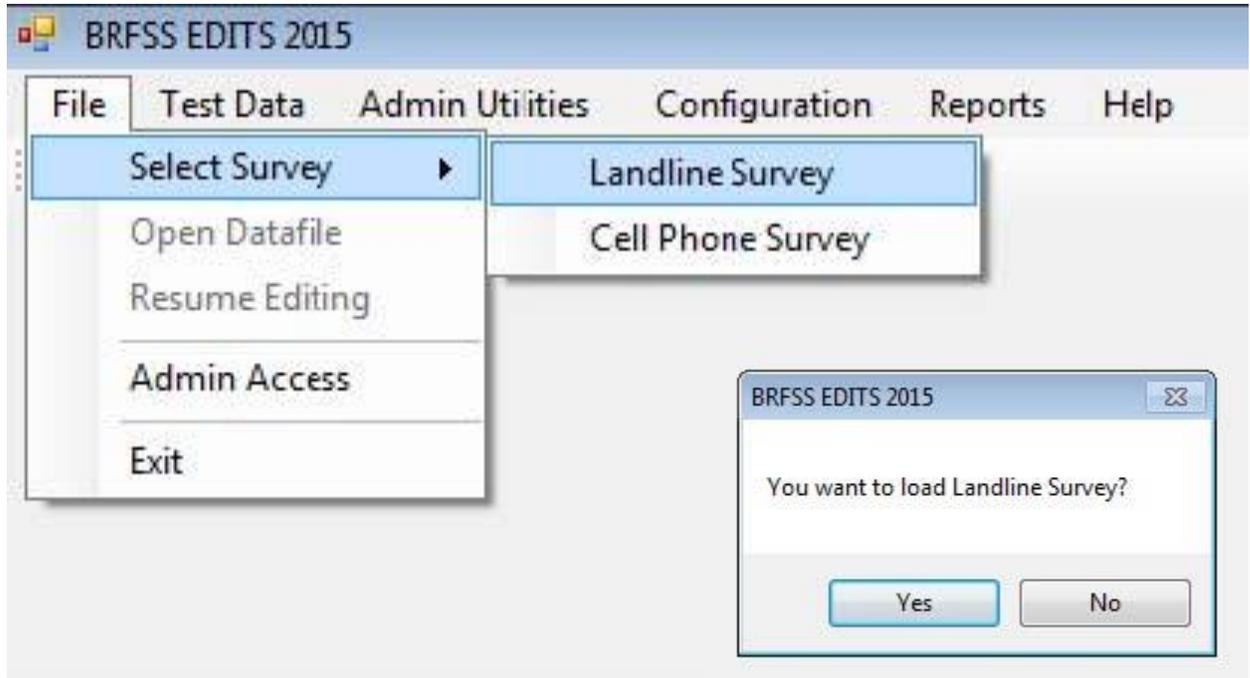
Default Folder Structure



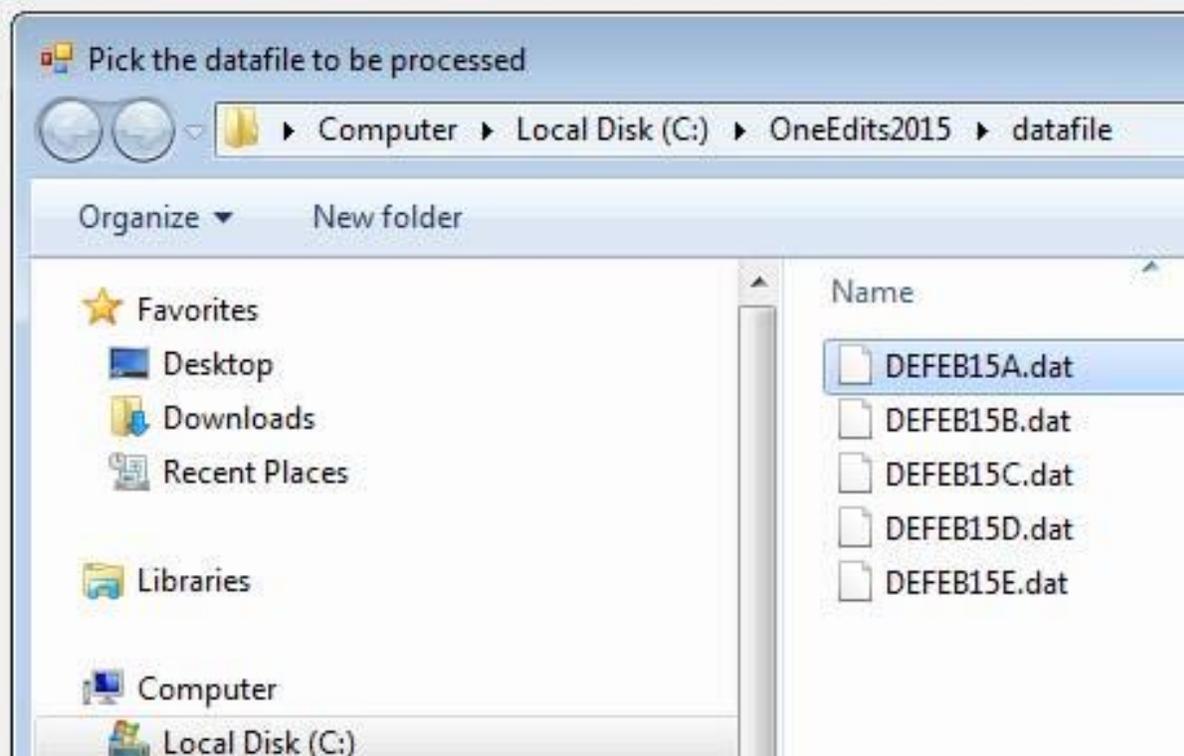
Datafile– Keep original .dat file

Playpen – OneEdits keeps duplicate file there and make changes there

Select Survey



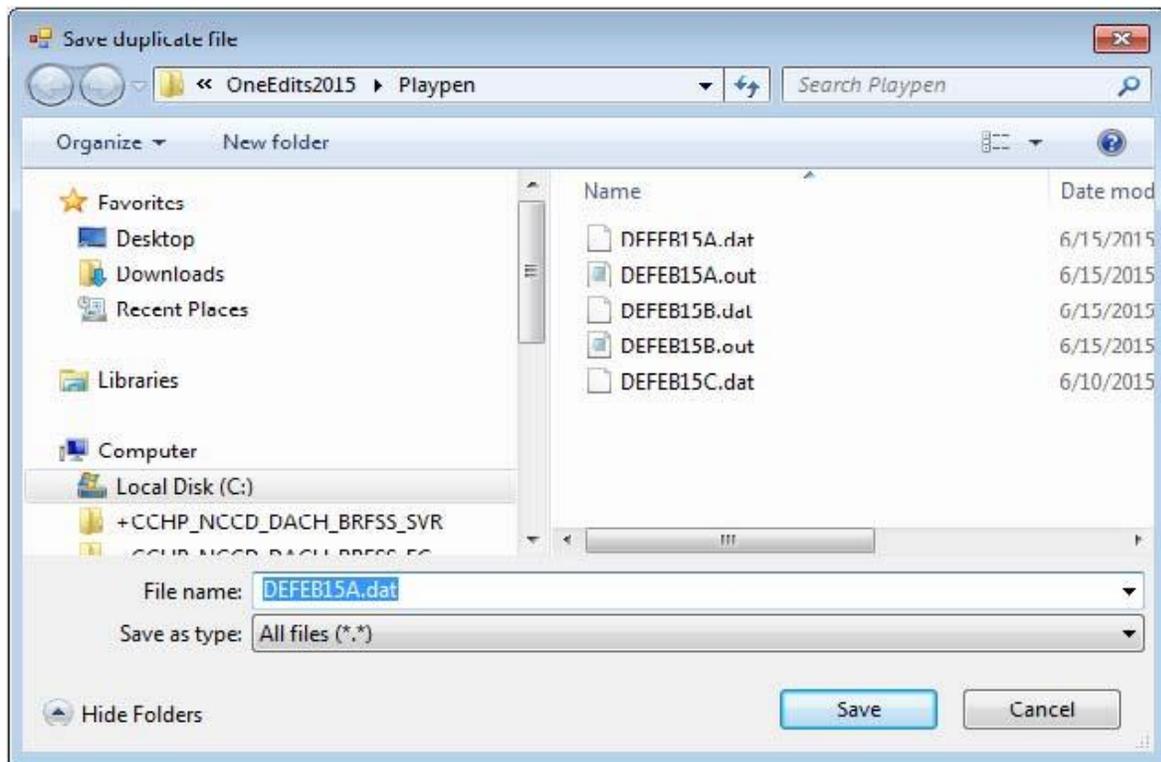
Select data file



Select file from Datafile folder

Save selected data file....

Save selected file in playpen folder. Keep filename same as original file.



Screening Results

Basic screening run results, good place to verify if selected modules have data.

Data Screening Result

Screening Result - C:\OneEdits2015\Playpen\DEFEB15A.dat

Module name	Records W/ Resp	Recs No Resp
MOD 01 - PRE DIABETES	0	153
MOD 02 - DIABETES	11	142
MOD 03 - HEALTHY DAYS	0	153
MOD 04 - CAREGIVER	0	153
MOD 05 - VISUAL IMPAIRMENT	0	153
MOD 06 - COGNITIVE DECLINE	0	153
MOD 07 - SALT RELATED BEHAVIOR	0	153
MOD 08 - ADLT ASTHMA HISTORY	0	153
MOD 09 - CARDIOVASCULAR HEALTH	0	153
MOD 10 - ARTHRITIS MGMT	0	153
MOD 11 - TETANUS	0	153

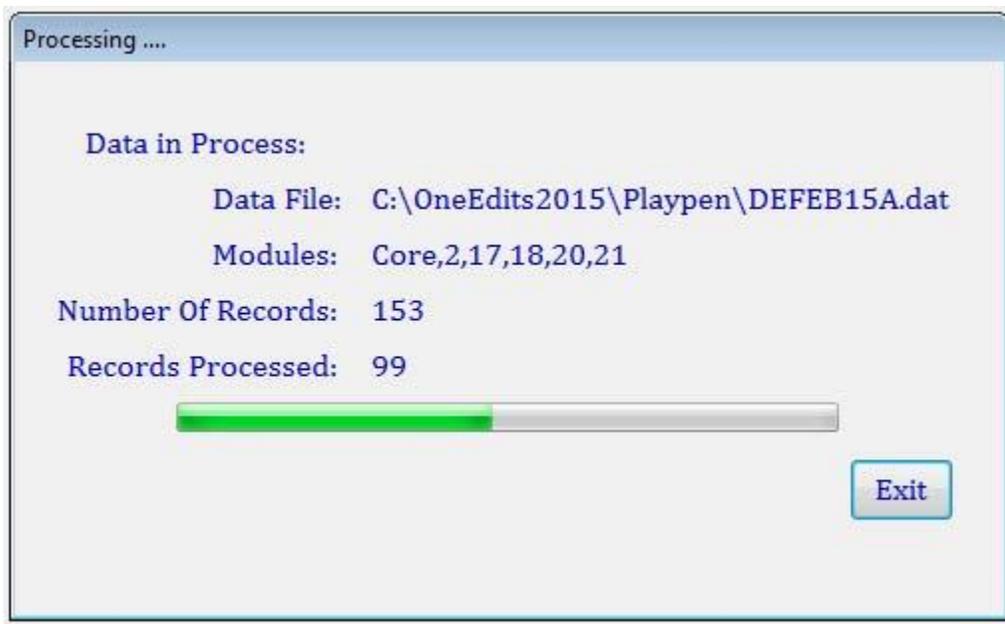
Number of Completes 74
Number of Incompletes 76
Number of Partial Completes 3
Number of Total Records 153

OK

Screening Results

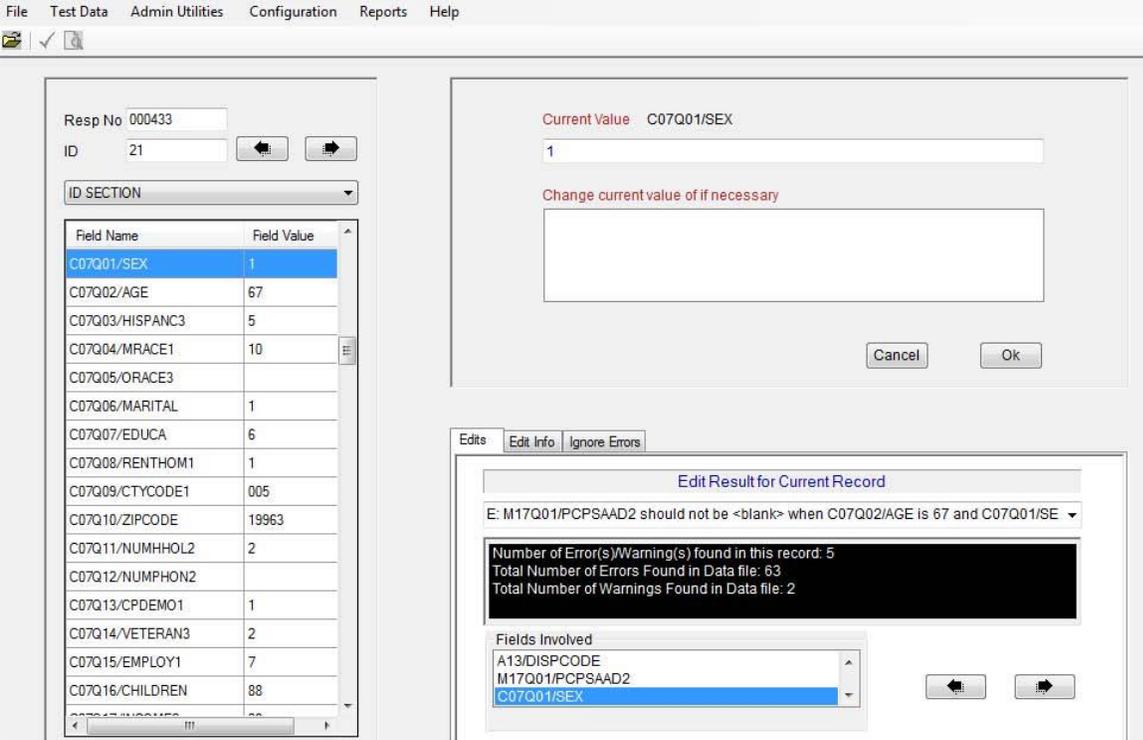
Test Dataset - > Run Edits menu would run edits on selected dataset.

Good place to review modules being run and see if that matches with what state intended to collect.



Edits Result

Test Dataset - > View Data menu would show edits run results. Data can be modified here in real time.



Ignore Errors....

This is where repeating errors can be suppressed temporarily to focus on other errors.

The screenshot shows the 'BRFSS EDITS 2015 Landline Survey' application window. The main interface includes a menu bar (File, Test Data, Admin Utilities, Configuration, Reports, Help) and a toolbar. On the left, there are input fields for 'Resp No' (000412) and 'ID' (1), along with navigation arrows. Below these is a table of 'Field Name' and 'Field Value' for the 'ID SECTION'. The 'Ignore Errors' dialog box is open, featuring two text input fields: 'Current Value' and 'Change current value of if necessary'. At the bottom of the dialog are 'Cancel' and 'Ok' buttons. In the background, a table with columns 'editsetname', 'Editname', 'ErrCount', 'WarnCount', and 'Hide' is visible, listing various error categories and their counts.

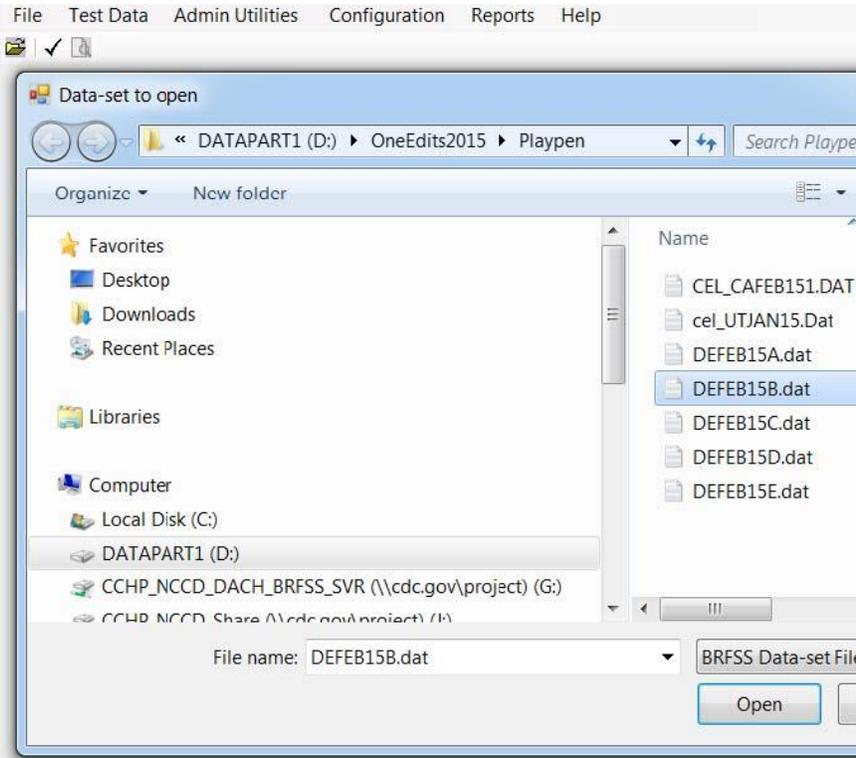
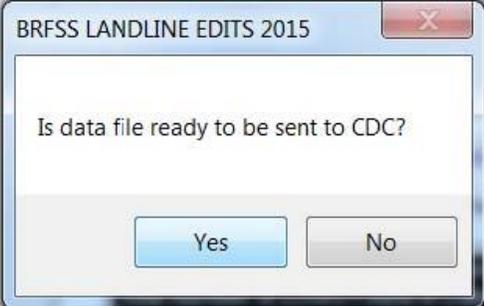
Field Name	Field Value
A01/STATE	01
A02/GEOSTR	101
A03/DENSTR2	1
A04/PRECALL	1
A05/SECSCRFL	1
A06/REPNUM	020014
A07/REPDEPTH	01
A08/FMONTH	02
A09/IDATE	02072015
A10/INTVID	30035
A13/DISPCODE	2210
A14/SEQNO	2015002011
B01/NATTMPTS	03
B02/NRECSSEL	001944
B03/NRECSTR	000042278
B04/CTELENUM	1

editsetname	Editname	ErrCount	WarnCount	Hide
ID SECTION	A01/STATE Vs ...	153	0	<input type="checkbox"/>
ID SECTION	A08/FMONTH V...	1	0	<input type="checkbox"/>
ID SECTION	A13/DISPCODE ...	1	0	<input type="checkbox"/>
ID SECTION	A13/DISPCODE ...	3	0	<input type="checkbox"/>
CORE	C01Q01/GENHL...	1	0	<input type="checkbox"/>
CORE	C02Q01/PHYSH...	1	0	<input type="checkbox"/>
CORE	C02Q02/MENTH...	1	0	<input type="checkbox"/>
CORE	C02Q03/POORH...	1	0	<input type="checkbox"/>

Resume Edits....

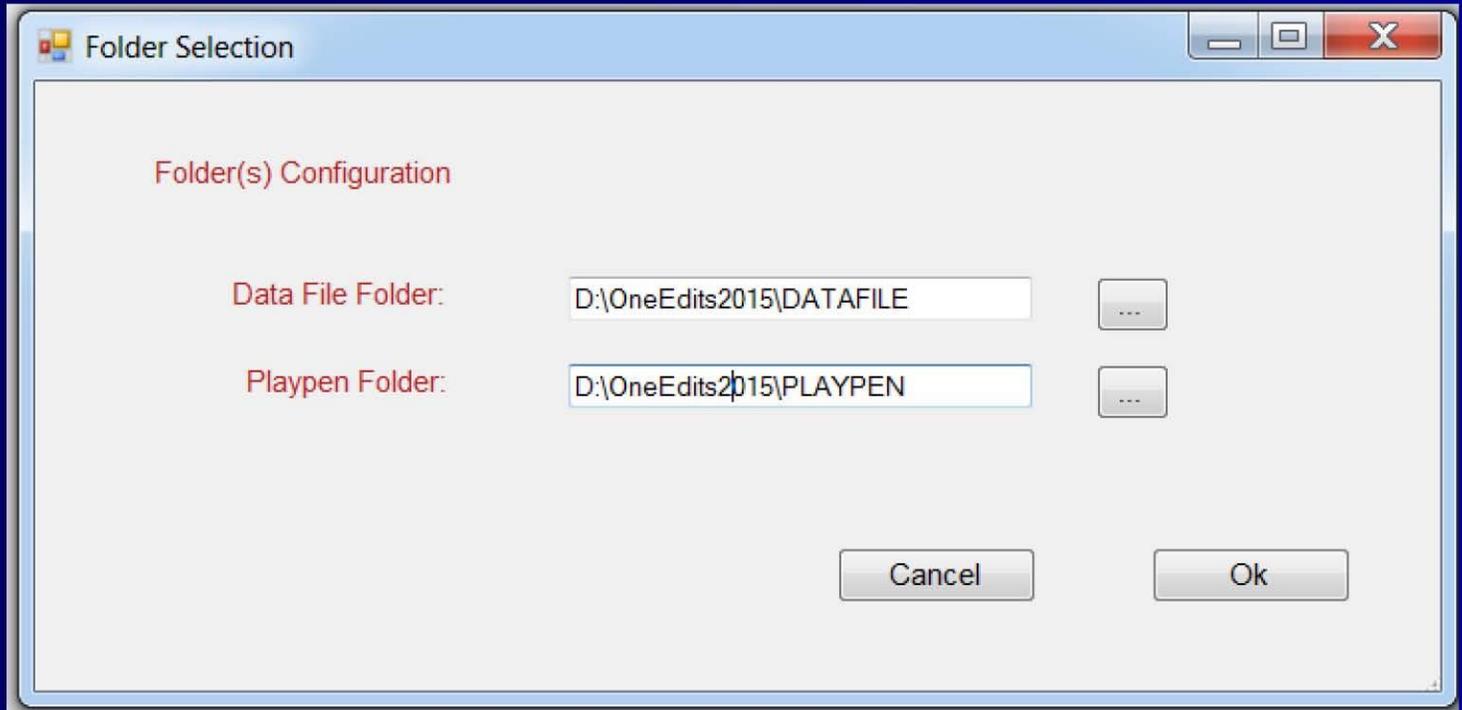
Select 'No' while quitting application if user wants to resume editing in future.

File - > Select Survey and File - > Resume Editing would allow resumption of editing.



Folder Selection....

File - > Select Survey and Configuration



- File -> Select Survey and Configuration-> Folder Selection would allow users to change folders related to Data file and Playpen locations.
- User can point these locations to network drive if one wish to.

Module Selection....

Select a State CA *State is doing 3 version in the survey.
+10,22,23/+2,6,11,22,23/+22,23*

Available Modules

<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> CORE	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> MOD 11 - TETANUS	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> MOD 22 - RANDOM CHILD SELECTION
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 01 - PRE DIABETES	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 12 - ADLT HPV	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> MOD 23 - CHILDHOOD ASTHMA
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> MOD 02 - DIABETES	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 13 - SHINGLES	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 24 - EMT SUPRT
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 03 - HEALTHY DAYS	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 14 - BRST CERVICAL CNCR SCRNM	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 25 - ANXIETY DEPRESSION
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 04 - CAREGIVER	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 15 - CLNCL BRST CNCR	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 05 - VISUAL IMPAIRMENT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 16 - COLORECTAL CNCR SCRNM	
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> MOD 06 - COGNITIVE DECLINE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 17 - PROSTATE CNCR SCRNM	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 07 - SALT RELATED BEHAVIOR	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 18 - PROSTATE CNCR SCRNM DMM	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 08 - ADLT ASTHMA HISTORY	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 19 - INDUSTRY OCCUPATION	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 09 - CARDIOVASCULAR HEALTH	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 20 - SOCIAL CONTEXT	
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 10 - ARTHRITIS MGMT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MOD 21 - SEXUAL ORIENTATION	

- File -> Select Survey and Configuration-> Module Selection would allow users to change modules being collected for states doing split version.
- No need to provide module list for states not doing dual survey.

Global field value change

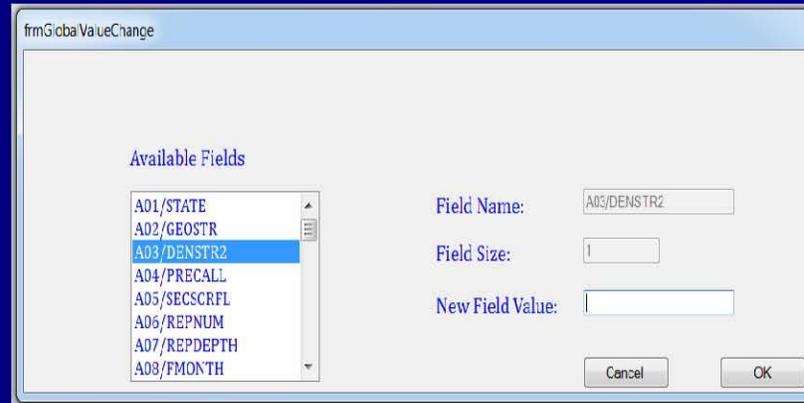
File - > Select Survey, File - > Admin Access, Admin



Admin Password

User Name

Password



frmGlobalValueChange

Available Fields

- A01/STATE
- A02/GEOSTR
- A03/DENSTR2
- A04/PRECALL
- A05/SECSCRFL
- A06/REPNUM
- A07/REPDEPTH
- A08/FMONTH

Field Name:

Field Size:

New Field Value:

- File -> Select Survey, File -> Admin Access, Admin Utilities -> Global field value change would allow users to change value of a field across records in data file.

Reports ...

■ Screening Report

- Report shows modules presence in the dataset along with number of complete, partial complete

■ Summary Report

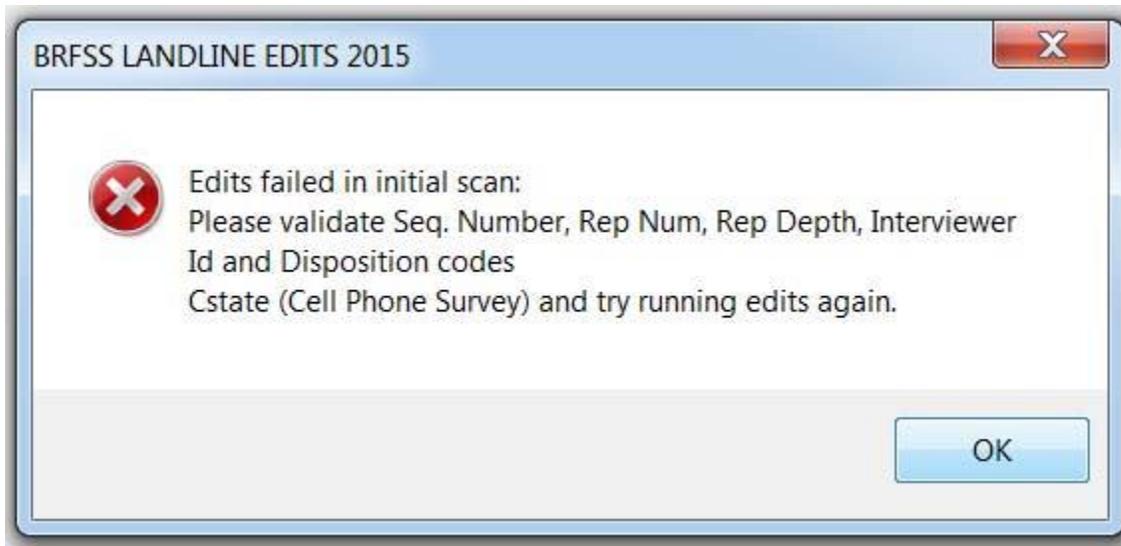
- Report shows summary of errors generated during edits run grouped by edit names

■ Complete Report

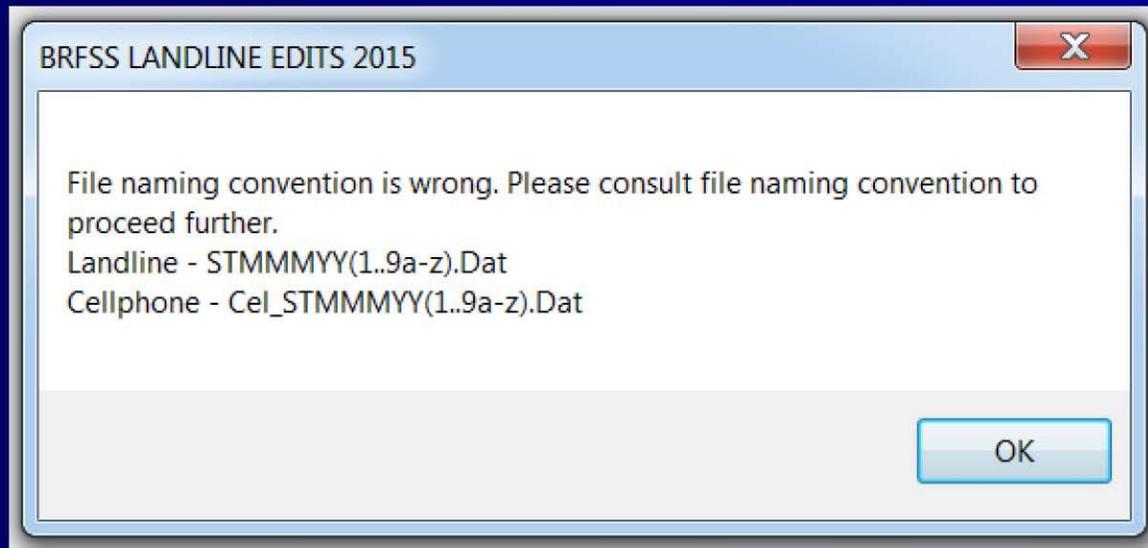
- Report shows detailed error messages along with screening and summary part of it

Error Messages

This message will show up if selected data file has missing data for any one of the fields mentioned in error message.

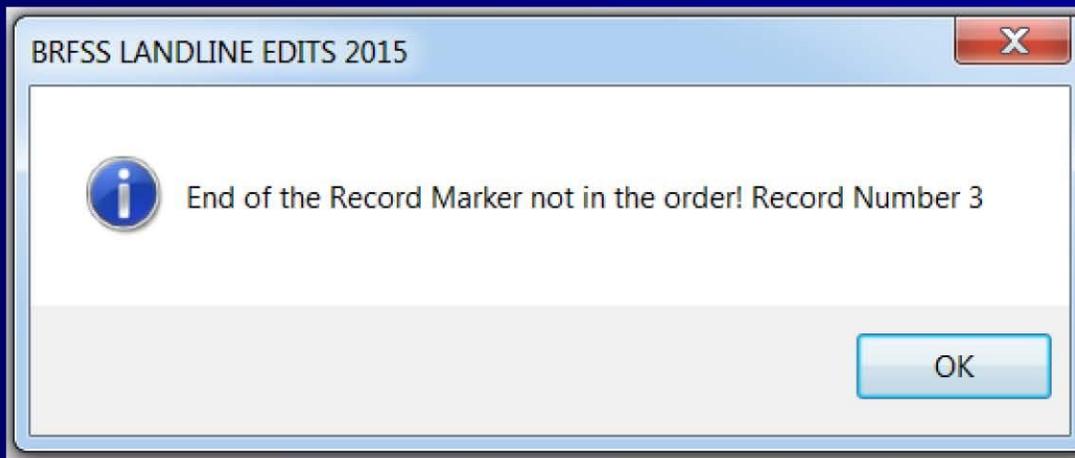


Error Messages



- This message will show up if data file selected does not follow file naming convention.
- User may inadvertently select cell phone survey data file when he/she is in landline survey session.

Error Messages



- This message will show up if data file selected does not follow record layout.
- Missing EOR marker (^1') at the end of any record will prompt this error message.

As with any software, there may be unexpected errors.

If you continue to experience problems with OneEdits, please contact Ajay Sharma

AUS6@cdc.gov or Bill Garvin WSG1@cdc.gov.