

2009

Behavioral Risk Factor Surveillance System

Calculated Variables

(Version #7 - Revised: August 31, 2010)

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data File

INTRODUCTION:

This document provides information on calculated variables and risk factors for the 2006 Behavioral Risk Factor Survey. These variables are calculated from responses to questions in the survey. There are three types of calculated variables.

The first are those variables used to stratify and weight the data, which are not included in this document.

The second are intermediate variables. These are variables derived from a question response and are used to calculate some other variable or risk factor. For example: WTKG2 is derived from the WEIGHT2 variable in the survey. WTKG2 is then used to calculate the body mass index variable (_BMI4). Most of the intermediate variables end with an underscore (Example: FTJUDAY_), but not all of them do.

The third type of calculated variables, are those used to categorize or classify respondents. Most of these begin with an underscore. (Example: _BMI4.) Exceptions are: _DENSTR2, _GEOSTR, and _STATE, which are determined before the interview. Some of the calculated variables group continuous variables such as weight, age, or body mass index, into categories. Other calculated variables regroup non-continuous variables to simplify analyses. The common focus of these variables is on health behaviors that are associated with a "risk" for illness or injury.

The tables in this report include a description of what the responses mean and a copy of the code used to calculate these variables in SAS®. The syntax of the code may or may not work as is in other statistical programs.

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

NEW CALCULATED VARIABLES FOR 2009

_MODMNWK was added in 2009.

_PA150RC was added in 2009.

_PA300RC was added in 2009.

_TOTMNWK was added in 2009.

_VIGMNWK was added in 2009.

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 1: Health Status

_RFHLTH Calculated variable for adults with good or better health. *_RFHLTH* is derived from *GENHLTH*.

- | | | |
|---|--|--|
| 1 | Good or Better Health | Respondents that reported having excellent, very good or good health. (<i>GENHLTH</i> =1, 2, 3) |
| 2 | Fair or Poor Health | Respondents that reported having fair or poor health. (<i>GENHLTH</i> =4, 5) |
| 9 | Don't know/ Not Sure Or Refused/ Missing | Respondents that reported they didn't know, refused to answer, or had missing responses for the general health status question. (<i>GENHLTH</i> =7, 9, missing) |

SAS Code: IF 4 LE *GENHLTH* LE 5 THEN *_RFHLTH*=2;
ELSE IF 1 LE *GENHLTH* LE 3 THEN *_RFHLTH*=1;
ELSE *_RFHLTH*=9;

Section 2: Healthy Days - Health-Related Quality of Life

There are no calculated Variables for Section 2.

Section 3: Health Care Access

_HCVU65 Calculated variable for respondents aged 18-64 that have any form of health care coverage. *_HCVU65* is derived from *AGE* and *HLTHPLAN*.

- | | | |
|---|--|---|
| 1 | Have health care coverage | Respondents that reported having health care coverage (18 <= <i>AGE</i> <= 64 and <i>HLTHPLAN</i> = 1) |
| 2 | Do not have health care coverage | Respondents that reported not having health care coverage (18 <= <i>AGE</i> <= 64 and <i>HLTHPLAN</i> = 2) |
| 9 | Don't know/ Not Sure, Refused or Missing | Respondents that reported that reported they didn't know, were not sure, refused to report or had missing responses for having health care coverage (18 <= <i>AGE</i> <= 64 and <i>HLTHPLAN</i> = 7, 9, or missing or <i>AGE</i> >= 65) |

SAS Code: IF 18 LE *AGE* LE 64 THEN DO;
IF *HLTHPLAN*=1 THEN *_HCVU65*=1;
ELSE IF *HLTHPLAN*=2 THEN *_HCVU65*=2;
ELSE *_HCVU65*=9;
END;
ELSE *_HCVU65* = 9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 4: Sleep

There are no calculated Variables for Section 4.

Section 5: Exercise

_TOTINDA Calculated variable for adults that report doing physical activity or exercise during the past 30 days other than their regular job.
_TOTINDA is derived from EXERANY2.

- | | | |
|---|--|---|
| 1 | Had physical activity or exercise | Respondents that reported doing any physical activity or exercise. (EXERANY2=1) |
| 2 | No physical activity or exercise in last 30 days | Respondents that report doing no physical activity or exercise. (EXERANY2=2) |
| 9 | Don't know/
Refused/
Missing | Respondents that reported they didn't know, refused to answer, and those with missing responses for the physical activity/exercise question. (EXERANY2=7, 9, missing) |

SAS Code:
IF EXERANY2 IN (1) THEN _TOTINDA=1;
ELSE IF EXERANY2 IN (2) THEN _TOTINDA=2;
ELSE IF EXERANY2 IN (.,7,9) THEN _TOTINDA=9;

Section 6: Diabetes

There are no calculated Variables for Section 6.

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 7: Hypertension Awareness

_RFHYPE5 *Calculated variable for adults who have been told they have high blood pressure by a doctor, nurse, or other health professional. _RFHYPE5 is derived from BPHIGH4.*

- | | | |
|---|---|--|
| 1 | No | Respondents that were not told their pressure is high by a health professional (BPHIGH4=2,3,or 4) |
| 2 | Yes | Respondents that were told their pressure is high by a health professional (BPHIGH4=1) |
| 9 | Don't know/
Not Sure/
Refused/
Missing | Respondents that reported they didn't know if they were told if their blood pressure is high, those who refused to answer if they were told if their blood pressure is high, and those with missing responses (BPHIGH4=7,9,or missing) |

SAS Code: IF BPHIGH4 = 1 THEN _RFHYPE5=2;
ELSE IF BPHIGH4 = 2 THEN _RFHYPE5=1;
ELSE IF BPHIGH4 = 3 THEN _RFHYPE5=1;
ELSE IF BPHIGH4 = 4 THEN _RFHYPE5=1;
ELSE IF BPHIGH4 IN (.,7,9) THEN _RFHYPE5=9 ;

Section 8: Cholesterol Awareness

_CHOLCHK *Calculated variable for cholesterol check within past five years. _CHOLCHK is derived from BLOODCHO and CHOLCHK.*

- | | | |
|---|---|--|
| 1 | Had
cholesterol
checked in past
5 years. | Respondents that reported having had their cholesterol checked within the past five years (BLOODCHO=1 and CHOLCHK=1,2,or 3) |
| 2 | Did not have
cholesterol
checked in past
5 years | Respondents that reported not having had their cholesterol checked within the past five years (BLOODCHO=1 and CHOLCHK=4) |
| 3 | Have never had
cholesterol
checked | Respondents that reported never having had their cholesterol checked (BLOODCHO=2) |
| 9 | Don't know/
Not Sure Or
Refused/
Missing | Respondents that reported they didn't know if they had their cholesterol checked by a health professional, those who refused to answer if they had their cholesterol checked by a health professional, and those with missing responses (BLOODCHO=7,9,or missing and CHOLCHK=7,9,or missing) |

SAS Code: IF BLOODCHO=1 AND (1 LE CHOLCHK LE 3) THEN _CHOLCHK=1;
ELSE IF BLOODCHO=1 AND CHOLCHK=4 THEN _CHOLCHK=2;
ELSE IF BLOODCHO=2 AND CHOLCHK=. THEN _CHOLCHK=3;
ELSE IF BLOODCHO IN (.,7,9) OR CHOLCHK IN (.,7,9) THEN _CHOLCHK=9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 8: Cholesterol Awareness

_RFCHOL *Calculated variable for adults who have had their cholesterol checked and have been told by a doctor, nurse, or other health professional that it was high. _RFCHOL is derived from BLOODCHO and TOLDHI2.*

- | | | |
|---|---|--|
| 1 | No | Respondents that reported having had their blood cholesterol checked but had not been told it was high (BLOODCHO=1 and TOLDHI2=2) |
| 2 | Yes | Respondents that reported having had their blood cholesterol checked and had been told that they have high blood cholesterol (BLOODCHO=1 and TOLDHI2=1) |
| 9 | Don't know/
Not Sure Or
Refused/
Missing | Respondents that reported they didn't know if they had their blood cholesterol checked, those that reported they didn't know if they have been told their blood cholesterol was high, those who refused to answer if they had their blood cholesterol checked, those who refused to answer if they had been told that their blood cholesterol was high, and those with missing responses (BLOODCHO=1 and TOLDHI2=7,9,or missing) |
| . | Missing | Respondents that reported they have not had their blood cholesterol checked (BLOODCHO=2,7,9,or missing) |

SAS Code: IF BLOODCHO=1 AND TOLDHI2=1 THEN _RFCHOL=2;
ELSE IF BLOODCHO=1 AND TOLDHI2=2 THEN _RFCHOL=1;
ELSE IF BLOODCHO=1 AND TOLDHI2 IN (.,7,9) THEN _RFCHOL=9;
ELSE _RFCHOL=.;

Section 9: Cardiovascular Disease Prevalence

There are no calculated Variables for Section 9.

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 10: Asthma

_LTASTHM *Calculated variable for adults who have ever been told they have asthma. _LTASTHM is derived from ASTHMA2.*

- | | | |
|---|---|---|
| 1 | No | Respondents that have not been told by a doctor, nurse or health professional that they had asthma. (ASTHMA2=2) |
| 2 | Yes | Respondents that have been told by a doctor, nurse or health professional that they had asthma. (ASTHMA2=1) |
| 9 | Don't know/
Not Sure Or
Refused/
Missing | Respondents that reported they did not know if they had been told by a doctor, nurse or health professional that they had asthma, those that refused to answer if they had been told by a doctor, nurse or health professional that they had asthma, or those with missing responses. (ASTHMA2=7, 9, missing) |

SAS Code:
IF ASTHMA2=1 THEN _LTASTHM=2;
ELSE IF ASTHMA2=2 THEN _LTASTHM=1;
ELSE _LTASTHM=9;

Section 10: Asthma

_CASTHMA *Calculated variable for adults who have been told they currently have asthma. _CASTHMA is derived from ASTHMA2 and ASTHNOW.*

- | | | |
|---|---|---|
| 1 | No | Respondents that have not been told by a doctor, nurse or health professional that they had asthma or do not still have asthma. (ASTHMA2=2 or ASTHMA2=1 and ASTHNOW=2) |
| 2 | Yes | Respondents that have been told by a doctor, nurse or health professional that they had asthma and that they still have asthma. (ASTHMA2=1 and ASTHNOW=1) |
| 9 | Don't know/
Not Sure Or
Refused/
Missing | Respondents that reported they did not know if they had been told by a doctor, nurse or health professional that they had asthma, those that refused to answer if they had been told by a doctor, nurse or health professional that they had asthma, those that did not know if they still had asthma, those that refused to answer if they still had asthma, or those with missing responses. (ASTHMA2=7, 9, missing or ASTHNOW=7, 9, missing) |

SAS Code:
IF ASTHMA2=2 THEN _CASTHMA=1;
ELSE IF ASTHMA2=1 AND ASTHNOW=1 THEN _CASTHMA=2;
ELSE IF ASTHMA2=1 AND ASTHNOW=2 THEN _CASTHMA=1;
ELSE _CASTHMA=9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 10: Asthma

_ASTHMST *Calculated variable for computed asthma status.* _ASTHMST is derived from ASTHMA2 and ASTHNOW.

- | | | |
|---|---|--|
| 1 | Current | Respondents that have been told by a doctor, nurse or health professional that they had asthma and that they still have asthma. (ASTHMA2=1and ASTHNOW=1) |
| 2 | Former | Respondents that have been told by a doctor, nurse or health professional that they had asthma but do not still have asthma. (ASTHMA2=1 and ASTHNOW=2) |
| 3 | Never | Respondents that have not been told by a doctor, nurse or health professional that they had asthma. (ASTHMA2=2) |
| 9 | Don't know/
Not Sure Or
Refused/
Missing | Respondents that reported they didn't know if they had been told by a doctor, nurse or health professional that they had asthma, those that refused to answer if they had been told by a doctor, nurse or health professional that they had asthma, those that didn't know if they still had asthma, those that refused to answer if they still had asthma, or those with missing responses. (ASTHMA2=7, 9, missing; or ASTHNOW=7, 9, missing) |

SAS Code:
IF ASTHMA2=1 AND ASTHNOW=1 THEN _ASTHMST=1;
ELSE IF ASTHMA2=1 AND ASTHNOW=2 THEN _ASTHMST=2;
ELSE IF ASTHMA2=2 THEN _ASTHMST=3;
ELSE _ASTHMST=9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 11: Tobacco Use

_SMOKER3 *Calculated variable for four-level smoker status: everyday smoker, someday smoker, former smoker, non-smoker. _SMOKER3 is derived from SMOKE100 and SMOKDAY2.*

- | | | |
|---|---------------------------------------|--|
| 1 | Current smoker - now smokes every day | Respondents that reported having smoked at least 100 cigarettes in their lifetime and now smoke every day. (SMOKE100=1 and SMOKDAY2=1) |
| 2 | Current smoker - now smokes some days | Respondents that reported having smoked at least 100 cigarettes in their lifetime and now smoke some days. (SMOKE100=1 and SMOKDAY2=2) |
| 3 | Former smoker | Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently do not smoke. (SMOKE100=1 and SMOKDAY2=3) |
| 4 | Never smoked | Respondents that reported they had not smoked at least 100 cigarettes in their lifetime. (SMOKE100=2) |
| 9 | Don't know/
Refused/
Missing | Respondents that reported they didn't know if they had smoked 100 cigarettes in their lifetime, those that refused to answer if they had smoked 100 cigarettes in their lifetime, those that didn't know if they now smoked every day, some days or not at all, those that refused to answer if they now smoked every day, some days or not at all, or those with missing responses. (SMOKE100=7, 9, missing; or SMOKDAY2=7, 9, missing) |

SAS Code:

```
IF SMOKE100=2 THEN _SMOKER3=4;
ELSE IF SMOKE100=1 THEN DO;
  IF SMOKDAY2=1 THEN _SMOKER3=1;
  ELSE IF SMOKDAY2=2 THEN _SMOKER3=2;
  ELSE IF SMOKDAY2 = 3 THEN _SMOKER3=3;
  ELSE _SMOKER3=9;
END;
ELSE _SMOKER3=9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 11: Tobacco Use

_RFSMOK3 *Calculated variable for adults who are current smokers. _RFSMOK3 is derived from _SMOKER3.*

- | | | |
|---|------------------------------------|--|
| 1 | No | Respondents that reported they had not smoked at least 100 cigarettes in their lifetime, those that reported having smoked 100 cigarettes in their lifetime but do not currently smoke. (_SMOKER3=3, 4) |
| 2 | Yes | Respondents that reported having smoked at least 100 cigarettes in their lifetime and currently smoke. (_SMOKER3=1, 2) |
| 9 | Don't know/
Refused/
Missing | Respondents that reported they did not know if they had smoked 100 cigarettes in their lifetime, those that refused to answer if they had smoked 100 cigarettes in their lifetime, those that didn't know if they now smoked every day, some days or not at all, those that refused to answer if they now smoked every day, some days or not at all, or those with missing responses. (_SMOKER3=9) |

SAS Code:
IF _SMOKER3 IN (1,2) THEN _RFSMOK3=2;
ELSE IF _SMOKER3 IN (3,4) THEN _RFSMOK3=1;
ELSE _RFSMOK3=9;

Section 12: Demographics

MRACEORG *Calculated variable for mrace with trailing 7,8,9s removed. MRACEORG is derived from MRACE in the original order in which the data were received from the state territory. If MRACE is greater than 9 then any trailing 7, 8, or 9 is removed. If MRACE is less than or equal to 9 then MRACEORG is equal to MRACE.*

- | | | |
|-------------------|-------------------------|--|
| 1 -
65432
1 | Race code(s) | Respondents reported race or races in original order (MRACE=1, 2, 3, 4, 5, 6, or MRACE > 10) |
| 7 | Don't know/
Not sure | Respondents that reported they didn't know, or weren't sure of their race. (MRACE=7) |
| 9 | Refused | Respondents that refused to give their race. (MRACE=9) |

SAS Code:
IF LENGTH(MRACE) > 1 THEN DO;
MRACEORG = PUT(COMPRESS(MRACE,'789'),6.);
END;
ELSE DO;
MRACEORG=MRACE;
END;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

MRACEASC *Calculated variable for mrace with 7,8,9s removed, in ascending order.* MRACEASC is derived from MRACEORG. The values that make up MRACEORG are sorted from smallest to largest.

- 1 - Race code(s) Respondents reported race or races in ascending order
12345 (MRACEORG=1, 2, 3, 4, 5, 6, or MRACEORG > 10)
6
- 7 Don't know/ Respondents that reported they didn't know, or weren't
Not sure sure of their race. (MRACEORG=7)
- 9 Refused Respondents that refused to give their race. (MRACEORG=9)

SAS Code:

```
IF LENGTH(TRIM(LEFT(MRACEORG))) > 1 THEN DO;
  LEN=LENGTH(RIGHT(MRACEORG));
  DO I = 1 TO LEN-1;
    DO J = 1 TO LEN-1 WHILE (SUBSTR(MRACEORG,J+1,1) NE ' ');
      IF SUBSTR(MRACEORG,J,1) > SUBSTR(MRACEORG,J+1,1) THEN
        SUBSTR(MRACEORG,J,2) = REVERSE(SUBSTR(MRACEORG,J,2));
      END;
    END;
  END;
MRACEASC = INPUT(MRACEORG,6.);
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_PRACE *Calculated variable for preferred race category.* _PRACE is derived from MRACEASC and ORACE2. If MRACEASC has only one response, then _PRACE= MRACEASC. If MRACEASC has more than one response then _PRACE=ORACE2.

- | | | |
|----|---|--|
| 1 | White | Respondents that reported their race as white. (MRACE=1 or MRACEASC>11 and ORACE2=1) |
| 2 | Black or African American | Respondents that reported their race as black. (MRACE=2 or MRACEASC>11 and ORACE2=2) |
| 3 | Asian | Respondents that reported their race as Asian. (MRACE=3 or MRACEASC>11 and ORACE2=3) |
| 4 | Native Hawaiian or other Pacific Islander | Respondents that reported their race as Native Hawaiian or Pacific Islander . (MRACE=4 or MRACEASC>11 and ORACE2=4) |
| 5 | American Indian or Alaskan Native | Respondents that reported their race as American Indian or Alaska Native. (MRACE=5 or MRACEASC>11 and ORACE2=5) |
| 6 | Other race | Respondents who report they are of some other race group not listed in the question responses. (MRACE=6 or MRACEASC>11 and ORACE2=6) |
| 7 | No preferred race | Respondents that reported they are of more than one race group but did not report a preference or the preferred race is missing (MRACEASC>11 and ORACE2=7 or 9) |
| 8 | Multiracial but preferred race not asked | Respondents that reported they are of more than one race group but did not answer the question about which race best represents them NOTE: This is a data collection error. (MRACEASC >11 and ORACE2=8 or MRACEASC >11 and ORACE2=Missing) |
| 77 | Don't know/ Not sure | Respondents that reported they didn't know their race and did not answer the question about which race best represents them. (MRACEASC=7) |
| 99 | Refused | Respondents who refused to give their race and did not answer the question about which race best represents them. (MRACEASC=9) |

SAS Code:

```

IF 1 LE MRACEASC LE 6 THEN _PRACE=MRACEASC;
ELSE IF MRACEASC EQ 7 THEN _PRACE=77;
ELSE IF MRACEASC EQ 9 THEN _PRACE=99;
ELSE IF MRACEASC GE 12 AND ORACE2 IN (7,9) THEN _PRACE=7;
ELSE IF MRACEASC GE 12 AND ORACE2 EQ . THEN _PRACE=8;
ELSE IF MRACEASC GE 12 AND ORACE2 EQ 8 THEN _PRACE=8;
ELSE IF 1 LE ORACE2 LE 6 THEN _PRACE=ORACE2;

```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_MRACE *Calculated variable for multiracial race categorization. _MRACE is derived from MRACEASC. If respondents report more than one race they are assigned to the multiracial category. Otherwise _MRACE=MRACEASC.*

1	White only	Respondents that reported they are white. (MRACEASC=1)
2	Black or African American only	Respondents that report they are black. (MRACEASC=2)
3	Asian Only	Respondents that reported they are Asian. (MRACEASC=3)
4	Native Hawaiian or other Pacific Islander only	Respondents that reported they are native Hawaiian or Pacific Islander. (MRACEASC=4)
5	American Indian or Alaskan Native only	Respondents that reported they are American Indian or Alaska Native. (MRACEASC=5)
6	Other race only	Respondents that reported they are of some other race group not listed in the question responses. (MRACEASC=6)
7	Multiracial	Respondents that reported they are of more than one race group but do not specify a preferred race. (MRACEASC>11 and ORACE2=7, 8, 9, or missing)
77	Don't know/ Not sure	Respondents that reported they did not know their race. (MRACEASC=7)
99	Refused	Respondents that refused to give their race information. (MRACEASC=9)

SAS Code: IF MRACEASC GE 12 THEN _MRACE = 7;
 ELSE IF MRACEASC EQ 9 THEN _MRACE = 99;
 ELSE IF MRACEASC EQ 7 THEN _MRACE = 77;
 ELSE IF 1 LE MRACEASC LE 6 THEN _MRACE = MRACEASC;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

RACE2 *Calculated variable for race
ethnicity categories.* RACE2 is derived from _MRACE and HISPANC2. All
respondents who report they are of Hispanic or Latino origin are coded
as Hispanic.

1 White only, Respondents that reported they are of some other race
non-Hispanic group not listed in the question responses and are not
of Hispanic origin. (_MRACE=6 and HISPANC2=2)

2 Black only, Respondents that reported they are of more than one race
non-Hispanic group and are not of Hispanic origin. (_MRACE=7 and
HISPANC2=2)

3 Asian only, Respondents that reported they are of Hispanic origin.
non-Hispanic (HISPANC2=1)

4 Native Respondents that reported they did not know, or refused
Hawaiian or to give their race and are not of Hispanic origin or did
other Pacific not know, or refused to answer if they are of Hispanic
Islander only, origin. (_MRACE =77, 99 and HISPANC2=2 or HISPANC2=7, 9)
Non-Hispanic

SAS Code: IF HISPANC2 IN (7,9) OR (_MRACE IN(77,99) AND HISPANC2 EQ 2) THEN
DO;
RACE2 = 9 ;
END;
ELSE IF HISPANC2 = 2 THEN DO;
IF _MRACE = 1 THEN RACE2 = 1 ;
ELSE IF _MRACE = 2 THEN RACE2 = 2 ;
ELSE IF _MRACE = 3 THEN RACE2 = 3 ;
ELSE IF _MRACE = 4 THEN RACE2 = 4 ;
ELSE IF _MRACE = 5 THEN RACE2 = 5 ;
ELSE IF _MRACE = 6 THEN RACE2 = 6 ;
ELSE IF _MRACE = 7 THEN RACE2 = 7 ;
END;
ELSE IF HISPANC2 = 1 THEN DO;
RACE2 = 8 ;
END;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_RACEG2 *Calculated variable for white*

hispanic race group. _RACEG2 is derived from RACE2.

- | | | |
|---|-------------------------------------|--|
| 1 | Non-Hispanic
White | Respondents that reported they are white and not of
Hispanic origin. (RACE2=1) |
| 2 | Non-White or
Hispanic | Respondents that reported they are non-white or of
Hispanic origin. (RACE2=2, 3, 4, 5, 6, 7, 8) |
| 9 | Don't know/
Not sure/
Refused | Respondents that reported they did not know, or refused
to give their race and are not of Hispanic origin or did
not know, or refused to answer if they are of Hispanic
origin. (RACE2=9) |

SAS Code: IF RACE2 = 1 THEN _RACEG2 = 1;
ELSE IF RACE2 IN (2,3,4,5,6,7,8) THEN _RACEG2 = 2;
ELSE IF RACE2 = 9 THEN _RACEG2 = 9;

Section 12: Demographics

_RACEGR2 *Calculated variable for five-level race*

ethnicity category. _RACEGR2 is derived from RACE2.

- | | | |
|---|-------------------------------------|--|
| 1 | White only,
Non-Hispanic | Respondents that reported they are white and not of
Hispanic origin. (RACE2=1) |
| 2 | Black only,
Non-Hispanic | Respondents that reported they are black and not of
Hispanic origin. (RACE2=2) |
| 3 | Other race
only,
Non-Hispanic | Respondents that reported they are not white and not black
and not of Hispanic origin. (RACE2=3, 4, 5, 6) |
| 4 | Multiracial,
Non-Hispanic | Respondents that reported being multiracial but not of
Hispanic origin. (RACE2=7) |
| 5 | Hispanic | Respondents that reported they are of Hispanic origin.
(RACE2=8) |
| 9 | Don't know/
Not sure/
Refused | Respondents that reported they did not know, or refused
to give their race and are not of Hispanic origin or did
not know, or refused to answer if they are of Hispanic
origin. (RACE2=9) |

SAS Code: IF RACE2=1 THEN _RACEGR2=1;
ELSE IF RACE2=2 THEN _RACEGR2=2;
ELSE IF 3 LE RACE2 LE 6 THEN _RACEGR2=3;
ELSE IF RACE2=7 THEN _RACEGR2=4;
ELSE IF RACE2=8 THEN _RACEGR2=5;
ELSE IF RACE2=9 THEN _RACEGR2=9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_RACE_G	<i>Calculated variable for race groups used for internet prevalence tables. _RACE_G is derived from _RACEGR2.</i>	
1	White - Non-Hispanic	Respondents that reported they are white and not of Hispanic origin. (_RACEGR2=1)
2	Black - Non-Hispanic	Respondents that reported they are black and not of Hispanic origin. (_RACEGR2=2)
3	Hispanic	Respondents that reported that they are of Hispanic origin. (_RACEGR2=5)
4	Other race only, Non-Hispanic	All other respondents with valid race responses except for those reporting multiracial or Hispanic origins. (_RACEGR2=3)
5	Multiracial, Non-Hispanic	All other respondents reporting multiracial but non-Hispanic origin. (_RACEGR2=4)
.	Don't know/ Not sure/ Refused component question	Respondents with don't know, refused or missing values for _RACEGR2. (_RACEGR2=9, missing)

SAS Code:

```
IF _RACEGR2 = 1 THEN _RACE_G = 1;  
ELSE IF _RACEGR2 = 2 THEN _RACE_G = 2;  
ELSE IF _RACEGR2 = 3 THEN _RACE_G = 4;  
ELSE IF _RACEGR2 = 4 THEN _RACE_G = 5;  
ELSE IF _RACEGR2 = 5 THEN _RACE_G = 3;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_CNRACE *Calculated variable for number of census race categories chosen.*
_CNRACE is derived from MRACEASC and is equal to the number of "census"
race categories chosen.

0	Other/ do not know/ refused	No census race categories chosen by the respondent. (6 <= MRACEASC <= 9)
1	1 category chosen	One census race category chosen by the respondent. (MRACEASC=1)
2	2 category chosen	Two census race categories chosen by the respondent. (MRACEASC=2)
3	3 category chosen	Three census race categories chosen by the respondent. (MRACEASC=3)
4	4 category chosen	Four census race categories chosen by the respondent. (MRACEASC=4)
5	5 category chosen	Five census race categories chosen by the respondent. (MRACEASC=5)

SAS Code:

```
** REMOVES EXTRA CHARACTERS **;  
MRACE_=COMPRESS(MRACEASC, '679');  
** REMOVES BLANK SPACES **;  
IF MRACEASC NOTIN (6,7,9) THEN DO;  
  _CNRACE=LENGTH(COMPRESS(MRACE_));  
END;  
ELSE DO;  
  _CNRACE=0;  
END;
```

Section 12: Demographics

_CNRACEC *Calculated variable for number of census race categories chosen, collapsed.*
_CNRACEC is derived from _CNRACE.

1	One category chosen	One census race category chosen by the respondent. (_CNRACE=1)
2	Two or more categories chosen	Two or more census race categories chosen by the respondent. (_CNRACE>1)
.	_CNRACE = 0 or missing	No census race categories chosen by the respondent. (_CNRACE=0)

SAS Code:

```
IF _CNRACE EQ 0 THEN _CNRACEC=. ;  
ELSE IF _CNRACE EQ 1 THEN _CNRACEC=1;  
ELSE _CNRACEC=2 ;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_AGEG5YR Calculated variable for fourteen-level age category. *_AGEG5YR* is derived from AGE.

1	Age 18 to 24	Respondents with reported age between 18 and 24 years (18 <= AGE <= 24)
2	Age 25 to 29	Respondents with reported age between 25 and 29 years (25 <= AGE <= 29)
3	Age 30 to 34	Respondents with reported age between 30 and 34 years (30 <= AGE <= 34)
4	Age 35 to 39	Respondents with reported age between 35 and 39 years (35 <= AGE <= 39)
5	Age 40 to 44	Respondents with reported age between 40 and 44 years (40 <= AGE <= 44)
6	Age 45 to 49	Respondents with reported age between 45 and 49 years (45 <= AGE <= 49)
7	Age 50 to 54	Respondents with reported age between 50 and 54 years (50 <= AGE <= 54)
8	Age 55 to 59	Respondents with reported age between 55 and 59 years (55 <= AGE <= 59)
9	Age 60 to 64	Respondents with reported age between 60 and 64 years (60 <= AGE <= 64)
10	Age 65 to 69	Respondents with reported age between 65 and 69 years (65 <= AGE <= 69)
11	Age 70 to 74	Respondents with reported age between 70 and 74 years (70 <= AGE <= 74)
12	Age 75 to 79	Respondents with reported age between 75 and 79 years (75 <= AGE <= 79)
13	Age 80 or older	Respondents with reported age between 80 and 99 years (80 <= AGE <= 99)
14	Don't know/ Refused/ Missing	Respondents that reported they didn't know, were not sure, refused to report or had missing responses for their age. (AGE=7, 9, missing)

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_AGEG5YR Calculated variable for fourteen-level age category. *_AGEG5YR* is derived from AGE.

SAS Code: IF 18 LE AGE LE 24 THEN *_AGEG5YR* = 1;
ELSE IF 25 LE AGE LE 29 THEN *_AGEG5YR* = 2;
ELSE IF 30 LE AGE LE 34 THEN *_AGEG5YR* = 3;
ELSE IF 35 LE AGE LE 39 THEN *_AGEG5YR* = 4;
ELSE IF 40 LE AGE LE 44 THEN *_AGEG5YR* = 5;
ELSE IF 45 LE AGE LE 49 THEN *_AGEG5YR* = 6;
ELSE IF 50 LE AGE LE 54 THEN *_AGEG5YR* = 7;
ELSE IF 55 LE AGE LE 59 THEN *_AGEG5YR* = 8;
ELSE IF 60 LE AGE LE 64 THEN *_AGEG5YR* = 9;
ELSE IF 65 LE AGE LE 69 THEN *_AGEG5YR* = 10;
ELSE IF 70 LE AGE LE 74 THEN *_AGEG5YR* = 11;
ELSE IF 75 LE AGE LE 79 THEN *_AGEG5YR* = 12;
ELSE IF 80 LE AGE LE 99 THEN *_AGEG5YR* = 13;
ELSE *_AGEG5YR* = 14;

Section 12: Demographics

_AGE65YR Calculated variable for two-level age category. *_AGE65YR* is derived from AGE.

- | | | |
|---|------------------------------------|--|
| 1 | Age 18 to 64 | Respondents with reported ages 18-64. (18 <= AGE <=64) |
| 2 | Age 65 or older | Respondents with reported ages 65-99. (65 >= AGE >= 99) |
| 3 | Don't know/
Refused/
Missing | Respondents that reported they didn't know, were not sure, refused, or had a missing value for AGE. (AGE=7,9,or missing) |

SAS Code: IF 18 LE AGE LE 64 THEN *_AGE65YR*=1;
ELSE IF 65 LE AGE LE 99 THEN *_AGE65YR*=2;
ELSE *_AGE65YR* = 3;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_AGE_G *Calculated variable for six-level imputed age category. _AGE_G is derived from _IMPAGE (imputed age).*

- | | | |
|---|-----------------|--|
| 1 | Age 18 to 24 | Respondents with imputed ages between 18-24 years of age.
(18 <= _IMPAGE <= 24) |
| 2 | Age 25 to 34 | Respondents with imputed ages between 25-34 years of age.
(25 <= _IMPAGE <= 34) |
| 3 | Age 35 to 44 | Respondents with imputed ages between 35-44 years of age.
(35 <= _IMPAGE <= 44) |
| 4 | Age 45 to 54 | Respondents with imputed ages between 45-54 years of age.
(45 <= _IMPAGE <= 54) |
| 5 | Age 55 to 64 | Respondents with imputed ages between 55-64 years of age.
(55 <= _IMPAGE <= 64) |
| 6 | Age 65 or older | Respondents with imputed ages between 65-99 years of age.
(_IMPAGE >= 65) |

SAS Code:

```
IF (18<=_IMPAGE<=24) THEN _AGE_G = 1;
ELSE IF (25<=_IMPAGE<=34) THEN _AGE_G = 2;
ELSE IF (35<=_IMPAGE<=44) THEN _AGE_G = 3;
ELSE IF (45<=_IMPAGE<=54) THEN _AGE_G = 4;
ELSE IF (55<=_IMPAGE<=64) THEN _AGE_G = 5;
ELSE IF (_IMPAGE >= 65) THEN _AGE_G = 6;
```

Section 12: Demographics

HTIN3 *Calculated variable for reported height in inches. HTIN3 is derived from HEIGHT2. HTIN3 is calculated by adding the foot portion of HEIGHT2 multiplied by 12, to the inch portion.*

- | | | |
|------------|------------------------------------|---|
| 1 -
998 | Height in inches | Respondents calculated height in inches. (HTIN3=(HTM3x100) ÷ 2.54 or HTIN3=(height in feet x 12) + height in inches) |
| 999 | Don't know/
Refused/
Missing | Respondents that reported they didn't know, were not sure, refused to report or had missing responses for their height. (HEIGHT3=777, 999, 7777, 9999 or missing) |

SAS Code:

```
** CREATE HEIGHT1 CHARACTER VARIABLE **;
HEIGHT1=PUT(HEIGHT3,4.);
IF HEIGHT3 NOT IN (777,999,7777,9999,.) THEN DO;
IF 1 LE HEIGHT3 LT 800 and 0 LE (INPUT((substr(HEIGHT1,3,2)),2.))
LE 11 THEN DO;
HTIN3=(INPUT((substr(HEIGHT1,3,2)),2.)) +
((INPUT((substr(HEIGHT1,2,1)),1.))*12);
END;
ELSE IF 9000 LT HEIGHT3 LT 9242 THEN DO;
HTIN3=input(((HEIGHT3 - 9000)/2.54),3.0);
END;
END;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

HTM3 *Calculated variable for reported height in meters. HTM3 is derived from the variable HTIN3 by multiplying HTIN3 by 2.54 cm per in and dividing by 100 cm per meter.*

1 - Height in Respondents reported or calculated height in meters.
998 meters [2 (HTM3=(HTIN3 x 2.54) ÷ 100 or HTM3 = (HEIGHT3 - 9000) ÷ 100)
 implied
 decimal
 places]

999 Don't know/ Respondents that reported they didn't know, were not
 Refused/ sure, refused to report or had missing responses for their
 Missing height. (HEIGHT3=777, 999, 7777, 9999 or missing)

SAS Code: ** CONVERSION FACTOR = 39.3701 in/M **;
 IF HEIGHT3 NOT IN (777,999,7777,9999,.) THEN DO;
 IF 1 LE HEIGHT3 LT 800 and 0 LE (INPUT((substr(HEIGHT1,3,2)),2.))
 LE 11 THEN DO;
 HTM3 = (HTIN3 * 2.54) / 100;
 END;
 ELSE IF 9000 LT HEIGHT3 LT 9242 THEN DO;
HTM3 = (HEIGHT3 - 9000)/100;
 END;
 END;

Section 12: Demographics

WTKG2 *Calculated variable for reported weight in kilograms. WTKG2 is derived from WEIGHT2 by dividing WEIGHT2 by 2.2 kg per lb.*

1 - Weight in Respondents reported or calculated weight in kilograms.
99998 kilograms [2
 implied
 decimal
 places]

99999 Don't know/ Respondents that reported they didn't know, were not
 Refused/ sure, refused to report or had missing responses for their
 Missing weight.

SAS Code: ** CONVERSION FACTOR = 2.2046 kg/lb **;
 IF WEIGHT2 NOT IN (777,999,7777,9999,.) THEN DO;
 IF 0001 LE WEIGHT2 < 9000 THEN DO;
 WTKG2=WEIGHT2/2.2;
 END;
 ELSE IF WEIGHT2 > 9000 THEN DO;
 WTKG2=WEIGHT2-9000;
 END;
 END;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_RFBMI4 *Calculated variable for adults who have a body mass index greater than 25.00 (overweight or obese). _RFBMI4 is derived from _BMI4.*

- | | | |
|---|------------------------------------|---|
| 1 | No | Respondents not classified as overweight or obese based on body mass index. ($_BMI4 < 25.00$) |
| 2 | Yes | Respondents classified as overweight or obese based on body mass index. ($25.00 \leq _BMI4 < 99.99$) |
| 9 | Don't know/
Refused/
Missing | Respondents with an unknown, refused, or missing value for body mass index. ($_BMI4=99.99$) |

SAS Code:

```
IF (0.00 LE _BMI4 < 25.00) THEN _RFBMI4=1;
ELSE IF (25.00 <= _BMI4 < 99.99) THEN _RFBMI4=2;
ELSE IF (_BMI4 = 99.99) THEN _RFBMI4=9;
** Round off HTM3, WTKG2 and _BMI4 to 2 decimal places and remove
the decimal **;
HTIN3 = round(HTIN3,1);
HTM3 = round((HTM3*100),1);
WTKG2 = round((WTKG2*100),1);
_BMI4 = ROUND((_BMI4*100),1);
IF HTIN3=. THEN HTIN3=999;
IF HTM3=. THEN HTM3=999;
IF WTKG2=. THEN WTKG2=99999;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_CHLDCNT *Calculated variable for number of children in household.* _CHLDCNT is derived from CHILDREN.

- | | | |
|---|-------------------------------------|---|
| 1 | No children in household | Respondents that reported having no children. (CHILDREN=88) |
| 2 | One child in household | Respondents that reported having one child. (CHILDREN=1) |
| 3 | Two children in household | Respondents that reported having two children. (CHILDREN=2) |
| 4 | Three children in household | Respondents that reported having three children. (CHILDREN=3) |
| 5 | Four children in household | Respondents that reported having four children. (CHILDREN=4) |
| 6 | Five or more children in household | Respondents that reported having five or more children. (5 <= CHILDREN < 87) |
| 9 | Don't know/
Not sure/
Missing | Respondents that reported they didn't know, were not sure, refused or had a missing value for CHILDREN. (CHILDREN=99) |

SAS Code:

```
IF CHILDREN = 88 THEN _CHLDCNT = 1;
ELSE IF CHILDREN = 01 THEN _CHLDCNT = 2;
ELSE IF CHILDREN = 02 THEN _CHLDCNT = 3;
ELSE IF CHILDREN = 03 THEN _CHLDCNT = 4;
ELSE IF CHILDREN = 04 THEN _CHLDCNT = 5;
ELSE IF 05 <= CHILDREN < 88 THEN _CHLDCNT = 6;
ELSE IF CHILDREN = 99 THEN _CHLDCNT = 9;
ELSE IF CHILDREN = . THEN _CHLDCNT = 9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_EDUCAG *Calculated variable for level of education completed. _EDUCAG is derived from EDUCA.*

- | | | |
|---|--|--|
| 1 | Did not graduate High School | Respondents that reported they did not graduate high school. (EDUCA=1,2,3) |
| 2 | Graduated High School | Respondents that reported they graduated high school. (EDUCA=4) |
| 3 | Attended College or Technical School | Respondents that reported they attended college or technical school. (EDUCA=5) |
| 4 | Graduated from College or Technical School | Respondents that reported they graduated from college or technical school. (EDUCA=6) |
| 9 | Don't know/ Not sure/ Missing | Respondents that reported they didn't know, were not sure, refused, or had a missing value for EDUCA. (EDUCA=9, missing) |

SAS Code:

```
IF EDUCA IN (1,2,3) THEN _EDUCAG = 1;  
ELSE IF EDUCA IN (4) THEN _EDUCAG = 2;  
ELSE IF EDUCA IN (5) THEN _EDUCAG = 3;  
ELSE IF EDUCA IN (6) THEN _EDUCAG = 4;  
ELSE IF EDUCA IN (.,9) THEN _EDUCAG = 9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 12: Demographics

_INCOMG *Calculated variable for income categories.* _INCOMG is derived from INCOME2.

- | | | |
|---|-------------------------------------|---|
| 1 | Less than \$15,000 | Respondents whos reported income is less than \$15,000. (INCOME2=1,2) |
| 2 | \$15,000 to less than \$25,000 | Respondents whos reported income is \$15,000 to less than \$25,000. (INCOME2=3,4) |
| 3 | \$25,000 to less than \$35,000 | Respondents whos reported income is \$25,000 to less than \$35,000. (INCOME2=5) |
| 4 | \$35,000 to less than \$50,000 | Respondents whos reported income is \$35,000 to less than \$50,000. (INCOME2=6) |
| 5 | \$50,000 or more | Respondents whos reported income is \$50,000 or more. (INCOME2=7,8) |
| 9 | Don't know/
Not sure/
Missing | Respondents that refused to answer, didn't know or had a missing value for INCOME2. (INCOME2=77,99, or missing) |

SAS Code:

```
IF INCOME2 IN (1,2) THEN _INCOMG = 1;  
ELSE IF INCOME2 IN (3,4) THEN _INCOMG = 2;  
ELSE IF INCOME2 IN (5) THEN _INCOMG = 3;  
ELSE IF INCOME2 IN (6) THEN _INCOMG = 4;  
ELSE IF INCOME2 IN (7,8) THEN _INCOMG = 5;  
ELSE IF INCOME2 IN (77,99,.) THEN _INCOMG = 9;
```

Section 13: Caregiver Status

There are no calculated Variables for Section 13.

Section 14: Disability

There are no calculated Variables for Section 14.

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 15: Alcohol Consumption

DROCDY2_ *Calculated variable for drink-occasions-per-day.* DROCDY2_ is derived from ALCDAY4 by dividing the ALCDAY4 variable by 7 days per week or 30 days per month.

- 0 No Respondents reported no occasions per day that they
Drink-Occasion consumed alcohol. (ALCDAY4=888 or DRNKANY4=2)
s per day
- 1 - Respondents reported number of occasions per day that
899 Drink-Occasion they consumed alcohol. (ALCDAY4 not equal to 777, 888, 999, or
s per day missing and DRNKANY4 not equal to 2, 7, 9, or missing)
- 900 Don't know/
Not Sure Or Respondents that reported they did not know how many days
Refused/ they had at least one drink of alcohol, those that refused
Missing to answer how many days they had at least one drink of
alcohol, those with missing responses. (ALCDAY4=777, 999,
or missing or DRNKANY4=7, 9, or missing)

SAS Code: IF DRNKANY4 NOTIN (.,2,7,9) AND ALCDAY4 NOTIN (888,777,999,.) THEN
DO;
 IF 101 LE ALCDAY4 LE 107 THEN DROCDY2_=(ALCDAY4-100)/7;
 ELSE IF 201 LE ALCDAY4 LE 230 THEN DROCDY2_=(ALCDAY4-200)/30;
 END;
 ELSE IF ALCDAY4 EQ 888 THEN DROCDY2_=0;
 ELSE IF DRNKANY4 EQ 2 THEN DROCDY2_=0;
 ELSE DROCDY2_=9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 15: Alcohol Consumption

_RFBING4 *Calculated variable for binge drinkers (males having five or more drinks on one occasion, females having four or more drinks on one occasion).* **_RFBING4** is derived from DRNK3GE5 and ALCDAY4.

- | | | |
|---|------------------------------------|---|
| 1 | No | Respondents that reported they did not drink in the past 30 days, or those that report that they did drink alcohol in the past 30 days but did not report having five or more drinks of alcohol on an occasion. (ALCDAY4<231 and DRNK3GE5=88; or ALCDAY4=888) |
| 2 | Yes | Respondents that reported they did drink in the past 30 days and had five or more drinks on one or more occasions in the past month. (ALCDAY4<231 and 1<=DRNK3GE5<=76) |
| 9 | Don't know/
Refused/
Missing | Respondents that reported that they did not know if they had consumed five or more drinks of alcohol on one occasion or refused to answer if they had consumed five or more drinks of alcohol on one occasion or those with missing responses. (DRNK3GE5=77, 99, missing; or ALCDAY4=777, 999, missing) |

SAS Code:

```
IF DRNKANY4 NOTIN (.,2,7,9) AND ALCDAY4 NOTIN (888) THEN DO;
  IF 1 LE DRNK3GE5 LE 76 THEN _RFBING4=2;
  ELSE IF DRNK3GE5 IN (.,77,99) THEN _RFBING4=9;
  ELSE IF DRNK3GE5 IN (88) THEN _RFBING4=1;
  END;
ELSE IF ALCDAY4 = 888 THEN _RFBING4=1;
  ELSE IF DRNKANY4 = 2 THEN _RFBING4=1;
  ELSE _RFBING4=9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 15: Alcohol Consumption

_DRNKDY3 Calculated variable for calculated total number of alcoholic beverages consumed per day. *_DRNKDY3* is derived from *DROCDY2_* and *AVEDRNK2* by multiplying the total number of drink occasions per day (*DROCDY2_*) by the average number of drinks per occasion (*AVEDRNK2*).

- 0 Did not drink Respondents who did not drink in the past month.
(*DROCDY2_=0*)
- 1 - Number of Respondents reported number of alcoholic drinks in the
9899 drinks per day past month. ($0 < \text{DROCDY2}_ < 990$)
- 9900 Don't know/
Not sure/
Refused/
Missing Respondents who refused to report the number of alcohol drinks consumed per day, or respondents who did not know the number of alcohol drinks consumed per day, or those with missing responses or respondents who refused to report the number drink occasions per day, or respondents who did not know the number of drink occasions per day, or those with missing responses. (*AVEDRNK2=.,77,99* or *DROCDY2_=900*)

SAS Code: IF *DROCDY2_* = 0 THEN *_DRNKDY3*=0;
ELSE IF *DROCDY2_* = 9 THEN *_DRNKDY3*=99;
ELSE IF *AVEDRNK2* IN (.,77,99) THEN *_DRNKDY3*=99;
ELSE *_DRNKDY3*=*AVEDRNK2* * *DROCDY2_*;
_DRNKDY3=ROUND(*_DRNKDY3**100,1);
*This is done after all of the alcohol calculations but the code is included here;

Section 15: Alcohol Consumption

_DRNKMO3 Calculated variable for calculated total number of alcoholic beverages consumed per month. *_DRNKMO3* is derived by multiplying *_DRNKDY3* by 30.

- 0 Did not drink Respondents who did not consume any drinks of alcohol in
in the past the past month. (*_DRNKDY3*=0)
month
- 1 - Number of Respondents reported number of alcoholic drinks pre day.
9998 Drinks ($0 < \text{DROCDY2}_ < 9999$)
- 9999 Don't know/
Refused/
Missing Respondents that reported they did not know if they consumed any drinks of alcohol in the past month, or those that refused to answer if they consumed any drinks of alcohol in the past month. (*_DRNKDY3*=9999)

SAS Code: IF *_DRNKDY3* NOTIN (.,99) THEN *_DRNKMO3*=*_DRNKDY3**30;
ELSE *_DRNKMO3*=9999;
_DRNKMO3=ROUND(*_DRNKMO3*,1);
*This is done after all of the alcohol calculations but the code is included here;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 15: Alcohol Consumption

_RFDRHV3 *Calculated variable for heavy drinkers (adult men having more than two drinks per day and adult women having more than one drink per day).*
_RFDRHV3 is derived from **_DRNKDY3**, **ALCDAY4**, and **SEX**.

- | | | |
|---|------------------------------------|--|
| 1 | No | Male respondents that reported having 2 drinks per day or less, or female respondents that reported having 1 drinks per day or less. (Sex=1 and _DRNKDY3 <= 200 or Sex=2 and _DRNKDY3 <= 100 or ALCDAY4 =888) |
| 2 | Yes | Male respondents that reported having more than 2 drinks per day, or female respondents that reported having more than 1 drink per day. (Sex=1 and _DRNKDY3 > 200 or Sex=2 and _DRNKDY3 > 100) |
| 9 | Don't know/
Refused/
Missing | Respondents with don't know, refused or missing responses for ALCDAY4 or _DRNKDY3 . (ALCDAY4 =777, 999, or missing, or _DRNKDY3 =99, or missing) |

SAS Code:

```
IF SEX=1 AND _DRNKDY3 NOTIN (99,.) THEN DO;
  IF _DRNKDY3 GT 2 THEN _RFDRHV3=2;
  ELSE IF _DRNKDY3 LE 2 THEN _RFDRHV3=1;
  END;
ELSE IF SEX=2 AND _DRNKDY3 NOTIN (99,.) THEN DO;
  IF _DRNKDY3 GT 1 THEN _RFDRHV3=2;
  ELSE IF _DRNKDY3 LE 1 THEN _RFDRHV3=1;
  END;
ELSE IF ALCDAY4 EQ 888 THEN _RFDRHV3=1;
ELSE IF DRNKANY4 EQ 2 THEN _RFDRHV3=1;
ELSE _RFDRHV3=9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 15: Alcohol Consumption

_RFDRMN3 *Calculated variable for adult men that are heavy drinkers (having more than two drinks per day). _RFDRMN3 is derived from _DRNKDY3 and SEX and ALCDAY4.*

- 1 No Male respondents that reported having 2 drinks per day or less. (SEX=1 and _DRNKDY3 <= 200 or ALCDAY4=888)
- 2 Yes Male respondents that reported having more than 2 drinks per day. (SEX=1 and _DRNKDY3 > 200)
- 9 Don't know/
 Refused/
 Missing Male respondents with don't know, refused or missing responses for ALCDAY4 or _DRNKDY3. (SEX=1 and ALCDAY4=777, 999, or missing, or _DRNKDY3=99, or missing)
- . Respondent is Female respondents. (SEX=2)
 female

SAS Code:

```
IF SEX=1 THEN DO;
  IF _DRNKDY3 NOTIN (99,.) THEN DO;
    IF _DRNKDY3 GT 2 THEN _RFDRMN3=2;
    ELSE IF _DRNKDY3 LE 2 THEN _RFDRMN3=1;
  END;
  ELSE IF ALCDAY4 IN (888) THEN _RFDRMN3=1;
  ELSE IF DRNKANY4 EQ 2 THEN _RFDRMN3=1;
ELSE _RFDRMN3=9;
END;
ELSE IF SEX=2 THEN _RFDRMN3=.;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 15: Alcohol Consumption

_RFDRWM3 *Calculated variable for adult women that are heavy drinkers (having more than one drink per day). _RFDRWM3 is derived from _DRNKDY3 and SEX and ALCDAY4.*

- 1 No Female respondents that reported having 1 drink per day or less. (SEX=2 and _DRNKDY3 <= 200 or ALCDAY4=888)
- 2 Yes Female respondents that reported having more than 1 drink per day. (SEX=2 and _DRNKDY3 > 200)
- 9 Don't know/
 Refused/
 Missing Female respondents with don't know, refused or missing responses for ALCDAY4 or _DRNKDY3. (SEX=2 and ALCDAY4=777, 999, or missing, or _DRNKDY3=99, or missing)
- . Respondent is male Male respondents. (SEX=1)

SAS Code:

```
IF SEX=2 THEN DO;
  IF _DRNKDY3 NOTIN (99,.) THEN DO;
    IF _DRNKDY3 GT 1 THEN _RFDRWM3=2;
    ELSE IF _DRNKDY3 LE 1 THEN _RFDRWM3=1;
  END;
  ELSE IF ALCDAY4 IN (888) THEN _RFDRWM3=1;
  ELSE IF DRNKANY4 EQ 2 THEN _RFDRWM3=1;
ELSE _RFDRWM3=9;
END;
Else IF SEX=1 THEN _RFDRWM3=.;
** ROUND OFF _DRNKMO3 TO NO DECIMAL PLACES ** MULTIPLY _DRNKDY3 BY
100 AND THEN ROUND OFF TO NO DECIMAL PLACES AND THEN REMOVE THE DECIMAL
PLACES **;
DROCDY2_=round((DROCDY2_*100),1);
_DRNKMO3=ROUND(_DRNKMO3,1);
_DRNKDY3=ROUND((_DRNKDY3*100),1);
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 16: Immunization

_FLSHOT3 *Calculated variable for adults aged 65+ who have had a flu shot within the past year. _FLSHOT3 is derived from FLUSHOT3.*

- | | | |
|---|---|---|
| 1 | Yes | Respondents aged 65 or older that reported having a flu shot within the past 12 months. (AGE >= 65 and FLUSHOT3=1) |
| 2 | No | Respondents aged 65 or older that reported not having had a flu shot within the past 12 months. (AGE >= 65 and FLUSHOT3=2) |
| 9 | Don't know/
Not Sure Or
Refused/
Missing | Respondents who did not know their age, those that refused to report their age, those that didn't know if they had a flu shot in the past 12 months, or those that refused to answer if they had a flu shot in the past 12 months, or those with missing responses. (AGE >= 65 and FLUSHOT3=7,9, or missing or AGE=7,9, or missing) |
| . | Age Less Than
65 | Respondents aged 18-64. (18 <= AGE <= 64) |

SAS Code:

```
IF AGE GE 65 THEN DO;
  IF FLUSHOT3=1 THEN _FLSHOT3=1;
  ELSE IF FLUSHOT3=2 THEN _FLSHOT3=2;
  ELSE IF FLUSHOT3 IN (.,7,9) THEN _FLSHOT3=9;
  END;
ELSE IF AGE IN (.,7,9) THEN _FLSHOT3=9;
ELSE _FLSHOT3=.;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 16: Immunization

_PNEUMO2 *Calculated variable for adults aged 65+ who have ever had a pneumonia vaccination. _PNEUMO2 is derived from PNEUVAC3.*

- 1 Yes Respondents aged 65 or older that reported having a pneumonia shot. (AGE >= 65 and FLUSHOT3=1)
- 2 No Respondents aged 65 or older that reported not having had a pneumonia shot. (AGE >= 65 and FLUSHOT3=2)
- 9 Don't know/
Not Sure Or
Refused/
Missing Respondents who did not know their age, those that refused to report their age, those that did not know if they ever had a pneumonia shot, those that refused to answer if they had a pneumonia shot, or those with missing responses. (AGE >= 65 and PNEUVAC3=7,9, or missing or AGE=7,9, or missing)
- . Age Less Than
65 Respondents aged 18-64. (18 <= AGE <= 64)

SAS Code: IF AGE GE 65 THEN DO;
 IF PNEUVAC3=1 THEN _PNEUMO2=1;
 ELSE IF PNEUVAC3=2 THEN _PNEUMO2=2;
 ELSE IF PNEUVAC3 IN (.,7,9) THEN _PNEUMO2=9;
 ELSE _PNEUMO2=.;
 END;
 ELSE IF AGE IN (.,7,9) THEN _PNEUMO2=9;
 ELSE _PNEUMO2=.;

Section 17: Arthritis Burden

_DRDXART *Calculated variable for respondents that have had a doctor diagnose them as having some form of arthritis. _DRDXART is derived from HAVARTH2.*

- 1 Diagnosed with arthritis Respondents that have been told by a doctor they had arthritis (HAVARTH2=1)
- 2 Not diagnosed with arthritis Respondents that have not been told by a doctor they had arthritis (HAVARTH2=2)
- . Don't know/
Not Sure/
Refused/
Missing Respondents that reported they didn't know if they had been told by a doctor they had arthritis, those who refused to answer if they had been told by a doctor they had arthritis, and those with missing responses (HAVARTH2=7,9, or missing)

SAS Code: IF HAVARTH2 = 1 THEN _DRDXART=1;
 ELSE IF HAVARTH2 = 2 THEN _DRDXART=2;
 ELSE IF HAVARTH2 IN (7,9,.) THEN _DRDXART=.;

Section 18: Fruits & Vegetables

FTJUDAY_ *Calculated variable for fruit juice servings per day.* FTJUDAY_
converts the FRUITJUI variable to a "per day" response.

0 - Times per day Respondents reported servings of fruit juice per day
989 (FRUITJUI not equal to 777,999, or missing)

990 Don't know/ Respondents who reported they didn't know the quantity
Not Sure Or of fruit juice servings consumed per day, those who
Refused/ refused to answer, and those with missing responses
Missing (FRUITJUI=777,999, or missing)

SAS Code: IF 100 < FRUITJUI < 200 THEN FTJUDAY_=(FRUITJUI-100);
ELSE IF 200 < FRUITJUI < 300 THEN FTJUDAY_=(FRUITJUI-200)/7;
ELSE IF 300 < FRUITJUI < 400 THEN FTJUDAY_=(FRUITJUI-300)/30;
ELSE IF 400 < FRUITJUI < 500 THEN FTJUDAY_=(FRUITJUI-400)/365;
ELSE IF FRUITJUI = 555 THEN FTJUDAY_=0;
ELSE IF FRUITJUI IN (.,777,999) THEN FTJUDAY_=99;

Section 18: Fruits & Vegetables

FRUTDAY_ *Calculated variable for fruit servings per day.* FRUTDAY_
converts the FRUIT variable to a per day response.

0 - Times per day Respondents reported servings of fruit per day (FRUIT not
989 equal to 777, 999, or missing)

990 Don't know/ Respondents who reported they didn't know the quantity
Not Sure Or of fruit servings consumed per day, those who refused to
Refused/ answer, and those with missing responses (FRUIT=777, 999,
Missing or missing)

SAS Code: IF 100 < FRUIT < 200 THEN FRUTDAY_=(FRUIT-100);
ELSE IF 200 < FRUIT < 300 THEN FRUTDAY_=(FRUIT-200)/7;
ELSE IF 300 < FRUIT < 400 THEN FRUTDAY_=(FRUIT-300)/30;
ELSE IF 400 < FRUIT < 500 THEN FRUTDAY_=(FRUIT-400)/365;
ELSE IF FRUIT = 555 THEN FRUTDAY_=0;
ELSE IF FRUIT IN (.,777,999) THEN FRUTDAY_=99;

Section 18: Fruits & Vegetables

GNSLDAY_ *Calculated variable for green salad servings per day.* GNSLDAY_
converts the GREENSAL variable to a per day response.

0 - Times per day Respondents reported servings of green salad per day
989 (GREENSAL equal to 777, 999, or missing)

990 Don't know/ Respondents who reported they didn't know the quantity
Not Sure Or of green salad servings consumed per day, those who
Refused/ refused to answer, and those with missing responses
Missing (GREENSAL=777, 999, or missing)

SAS Code: ELSE IF FRUIT IN (.,777,999) THEN FRUTDAY_=99;
IF 100 < GREENSAL < 200 THEN GNSLDAY_=(GREENSAL-100);
ELSE IF 200 < GREENSAL < 300 THEN GNSLDAY_=(GREENSAL-200)/7;
ELSE IF 300 < GREENSAL < 400 THEN GNSLDAY_=(GREENSAL-300)/30;
ELSE IF 400 < GREENSAL < 500 THEN GNSLDAY_=(GREENSAL-400)/365;
ELSE IF GREENSAL = 555 THEN GNSLDAY_=0;
ELSE IF GREENSAL IN (.,777,999) THEN GNSLDAY_=99;

Section 18: Fruits & Vegetables

POTADAY_ *Calculated variable for potato servings per day.* POTADAY_
converts the POTATOES variable to a per day response.

0 - Times per day Respondents reported servings of potatoes per day
989 (POTATOES not equal to 777, 999, or missing)

990 Don't know/ Respondents who reported they didn't know the quantity
Not Sure Or of potato servings consumed per day, those who refused
Refused/ to answer, and those with missing responses (POTATOES=777,
Missing 999, or missing)

SAS Code: IF 100 < POTATOES < 200 THEN POTADAY_=(POTATOES-100);
ELSE IF 200 < POTATOES < 300 THEN POTADAY_=(POTATOES-200)/7;
ELSE IF 300 < POTATOES < 400 THEN POTADAY_=(POTATOES-300)/30;
ELSE IF 400 < POTATOES < 500 THEN POTADAY_=(POTATOES-400)/365;
ELSE IF POTATOES = 555 THEN POTADAY_=0;
ELSE IF POTATOES IN (.,777,999) THEN POTADAY_=99;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 18: Fruits & Vegetables

CRTSDAY_ *Calculated variable for carrot servings per day.* CRTSDAY_ converts the CARROTS variable to a per day response.

0 - Times per day Respondents reported servings of carrots per day (CARROTS
989 not equal to 777, 999, or missing)

990 Don't know/
Not Sure Or Respondents who reported they didn't know the quantity
Refused/ of carrot servings consumed per day, those who refused
Missing to answer, and those with missing responses (CARROTS=777,
999, or missing)

SAS Code: IF 100 < CARROTS < 200 THEN CRTSDAY_=(CARROTS-100);
ELSE IF 200 < CARROTS < 300 THEN CRTSDAY_=(CARROTS-200)/7;
ELSE IF 300 < CARROTS < 400 THEN CRTSDAY_=(CARROTS-300)/30;
ELSE IF 400 < CARROTS < 555 THEN CRTSDAY_=(CARROTS-400)/365;
ELSE IF CARROTS = 555 THEN CRTSDAY_=0;
ELSE IF CARROTS IN (.,777,999) THEN CRTSDAY_=99;

Section 18: Fruits & Vegetables

VEGEDAY_ *Calculated variable for vegetable servings per day.* VEGEDAY_ converts the VEGETABL variable to a per day response.

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 18: Fruits & Vegetables

_FRTSERV *Calculated variable for fruit and vegetable servings per day.*
FRTSERV is derived from the servings per day variables (FTJUDAY,
FRUTDAY_, GNSLDAY_, POTADAY_, CRTSDAY_, and VEGEDAY_). Values for
don't know, refused, or missing" (99) are excluded from the sum.

0 - Number of Servings of fruits and vegetables per day (Sum of FTJUDAY_,
99998 times per day FRUTDAY_, GNSLDAY_, POTADAY_, CRTSDAY_, and VEGEDAY_)

99999 Don't know/
Refused/
Missing Respondents with a 99 values for all six fruits and
vegetable per day variables. (FTJUDAY_=99 and FRUTDAY_=99 and
GNSLDAY_=99 and POTADAY_=99 and CRTSDAY_=99 and and VEGEDAY_=99)

SAS Code: IF FTJUDAY_ NOTIN (99) THEN FTJUDAY=FTJUDAY_;
ELSE FTJUDAY=.;
IF FRUTDAY_ NOTIN (99) THEN FRUTDAY=FRUTDAY_;
ELSE FRUTDAY=.;
IF GNSLDAY_ NOTIN (99) THEN GNSLDAY=GNSLDAY_;
ELSE GNSLDAY=.;
IF POTADAY_ NOTIN (99) THEN POTADAY=POTADAY_;
ELSE POTADAY=.;
IF CRTSDAY_ NOTIN (99) THEN CRTSDAY=CRTSDAY_;
ELSE CRTSDAY=.;
IF VEGEDAY_ NOTIN (99) THEN VEGEDAY=VEGEDAY_;
ELSE VEGEDAY=.;
IF FTJUDAY_=99 AND FRUTDAY_=99 AND GNSLDAY_=99 AND POTADAY_=99 AND
CRTSDAY_=99 AND VEGEDAY_=99 THEN _FRTSERV =999.99;
ELSE _FRTSERV=SUM(FTJUDAY, FRUTDAY, GNSLDAY, POTADAY, CRTSDAY,
VEGEDAY);

Section 18: Fruits & Vegetables

_FRTINDX Calculated variable for summary index for fruits and vegetables
calculated variable. *_FRTINDX* is derived from the servings per day
variable (*_FRTSERV*)

- | | | |
|---|--|---|
| 1 | Less than once
per day or
never | Respondents that reported they never consumed fruits and
vegetables or consumed less than 1 serving per day
(<i>_FRTSERV</i> <1) |
| 2 | Once but less
than 3 times
per day | Respondents that reported they consumed 1 to less than
3 servings of fruits and vegetables per day (1<= <i>_FRTSERV</i> <3) |
| 3 | 3 but less
than 5 times
per day | Respondents that reported they consumed 3 to less than
5 servings of fruits and vegetables per day (3<= <i>_FRTSERV</i> <5) |
| 4 | 5 or more
times per day | Respondents that reported they consumed 5 or more
servings of fruits and vegetables per day
(5<= <i>_FRTSERV</i> <999.99) |
| 9 | Don't know/
Refused/
Missing | Respondents who reported they didn't know the servings
consumed per day, those who refused to answer, and those
with missing responses (<i>_FRTSERV</i> =999.99) |

SAS Code:

```
IF 0 LE _FRTSERV LT 1 THEN _FRTINDX=1;  
ELSE IF 1 LE _FRTSERV LT 3 THEN _FRTINDX=2;  
ELSE IF 3 LE _FRTSERV LT 5 THEN _FRTINDX=3;  
ELSE IF 5 LE _FRTSERV LT 999.99 THEN _FRTINDX=4;  
ELSE IF _FRTSERV = 999.99 THEN _FRTINDX=9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 18: Fruits & Vegetables

_FV5SRV *Calculated variable for consumed five or more servings of fruits or vegetables per day. _FV5SRV is derived from the servings per day variable (_FRTSERV).*

- | | | |
|---|-------------------------------------|--|
| 1 | Consume < 5 times per day | Respondents that reported they never consumed fruits and vegetables or consumed less than 5 servings per day (_FRTSERV<5) |
| 2 | Consume 5 or more times per day | Respondents that reported they consumed 5 or more servings of fruits and vegetables per day (5<=_FRTSERV<999.99) |
| 9 | Don't know/
Not sure/
Missing | Respondents who reported they didn't know the servings consumed per day, those who refused to answer, and those with missing responses (_FRTSERV=999.99) |

SAS Code:

```
IF 0 LE _FRTSERV LT 5 THEN _FV5SRV=1;
  ELSE IF 5 LE _FRTSERV LT 999.99 THEN _FV5SRV=2;
  ELSE IF _FRTSERV = 999.99 THEN _FV5SRV=9;
** ROUND OFF VARIABLES TO BE STORED IN ASCII FILE WITHOUT THE DECIMAL
IN THEM **;
  FTJUDAY_=round((FTJUDAY_*10),1);
  FRUTDAY_=round((FRUTDAY_*10),1);
  GNSLDAY_=round((GNSLDAY_*10),1);
  POTADAY_=round((POTADAY_*10),1);
  CRTSDAY_=round((CRTSDAY_*10),1);
  VEGEDAY_=round((VEGEDAY_*10),1);
  _FRTSERV=round((_FRTSERV *100),1);
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

_MODPAMN *Calculated variable for total minutes of moderate physical activity.*
_MODPAMN is derived from MODPATIM and MODPADAY by multiplying the hours portion of MODPATIM by 60 and adding it to the minutes portion.

0 - 599 Minutes of moderate physical activity Respondents who reported doing 0-599 minutes of moderate physical activity

. Don't know/ Not sure/ Refused/ Missing Respondents who reported they didn't know whether they did moderate physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (MODPACT=7,9, or missing or MODPADAY=7,9, or missing or MODPATIM=777,999 or missing)

SAS Code:

```
FORMAT NEWPACT $CHAR4. ;
  IF MODPATIM > 959 THEN MODPATIM = 999;
IF MODPATIM notin (.,777,999) and MODPADAY notin (.,0,77,88,99) THEN
DO;
  NEWPACT=MODPATIM;
  NEWPACT=TRANSLATE(NEWPACT,'0',' ');
  MODHRS_=SUBSTR(NEWPACT,2,1)+0;
  MODMIN_=SUBSTR(NEWPACT,3,2)+0;
  _MODPAMN=sum(MODHRS_*60,MODMIN_);
END;
  Else if MODPADAY in(0,88) or MODPACT=2 then _MODPAMN = 0;
  Else if MODPACT=1 and MODPADAY in(.,77,99) then _MODPAMN = .;
  _MODPAMN=ROUND(_MODPAMN,1);
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

_VIGPAMN *Calculated variable for total minutes of vigorous physical activity.*
_VIGPAMN is derived from VIGPATIM and VIGPADAY by multiplying the hours portion of VIGPATIM by 60 and adding it to the minutes portion.

0 - Minutes of Respondents who reported doing 0-599 minutes of vigorous
599 vigorous physical activity
physical activity

. Don't know/ Respondents who reported they didn't know whether they
Not sure/ did vigorous physical activity or didn't know how many
Refused/ days or didn't know how much time they did the activity,
Missing those who refused to answer, and those with missing
responses

SAS Code:

```
IF VIGPATIM > 959 THEN VIGPATIM = 999;  
IF VIGPATIM notin (.,777,999) and VIGPADAY notin (.,0,77,88,99) THEN  
DO;  
  NEWPACT=VIGPATIM;  
  NEWPACT=TRANSLATE(NEWPACT,'0',' ');  
  VIGHRS_=SUBSTR(NEWPACT,2,1)+0;  
  VIGMIN_=SUBSTR(NEWPACT,3,2)+0;  
  _VIGPAMN=sum(VIGHRS_*60,VIGMIN_);  END;  
Else if VIGPADAY in(0,88) or VIGPACT=2 then _VIGPAMN = 0;  
Else if VIGPACT=1 and VIGPADAY in(.,77,99) then _VIGPAMN = .;  
_VIGPAMN=ROUND(_VIGPAMN,1);
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

MODCAT_ *Calculated variable for 3 level moderate physical activity category.*
MODCAT_ is derived from MODPACT, _MODPAMN, MODPADAY, and MODPATIM.

- | | | |
|---|---|---|
| 1 | Meet
recommendation
s for moderate
physical
activity | Respondents that reported doing 30 or more minutes per day and for five or more days per week of moderate physical activity (MODPACT=1 and 5 <= MODPADAY <= 7 and 30 <= _MODPAMN <= 599) |
| 2 | Insufficient
activity to
meet moderate
recommendation
s | Respondents that reported doing less than 30 minutes per day or less than five days per week of moderate physical activity (MODPACT=1 and MODPADAY < 5 or _MODPATIM < 30) |
| 3 | No moderate
physical
activity | Respondents that reported doing no moderate physical activity (MODPACT=2 or MODPACT=1 and _MODPAMN=0) |
| 9 | Don't know/
Not sure/
Refused/
Missing | Respondents who reported they didn't know whether they did moderate physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (MODPACT=7, 9, or missing or MODPACT=1 and MODPADAY=7, 9, or missing or MODPATIM=7, 9, or missing) |

SAS Code:

```
If MODPACT=2 or _MODPAMN=0 then MODCAT_=3;  
Else if (5 <= MODPADAY <= 7 & 30 <= _MODPAMN <= 599) THEN MODCAT_=1;  
Else if MODPACT=1 and MODPADAY NOTIN (.,77,99) AND MODPATIM notin  
(.,777,999) then MODCAT_=2;  
ELSE MODCAT_=9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

VIGCAT_ *Calculated variable for 3 level vigorous physical activity category.*
VIGCAT_ is derived from VIGPACT, _VIGPAMN, VIGPADAY, and VIGPATIM.

- | | | |
|---|---|---|
| 1 | Meet
recommendation
s for vigorous
physical
activity | Respondents that reported doing 20 or more minutes per day and three or more days per week of vigorous physical activity (VIGPACT=1 and 3 <= VIGPADAY <= 7 and 20 <= _VIGPAMN <= 599) |
| 2 | Insufficient
activity to
meet vigorous
recommendation
s | Respondents that reported doing less than 20 minutes per day or less than three days per week of vigorous physical activity (VIGPACT=1 and VIGPADAY < 3 or _VIGPAMN < 20) |
| 3 | No vigorous
physical
activity | Respondents that reported doing no vigorous physical activity (VIGPACT=2 or VIGPACT=1 and _VIGPAMN=0) |
| 9 | Don't know/
Not sure/
Refused/
Missing | Respondents who reported they didn't know whether they did vigorous physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (VIGPACT=7, 9, or missing or VIGPACT=1 and VIGPADAY=7, 9, or missing or VIGPATIM=7, 9, or missing) |

SAS Code:

```
If VIGPACT=2 or _VIGPAMN=0 then VIGCAT_=3;  
Else if (3 <= VIGPADAY <= 7 & 20 <= _VIGPAMN <= 599) THEN VIGCAT_=1;  
Else if VIGPACT=1 and VIGPADAY NOTIN (.,77,99) AND VIGPATIM notin  
(.,777,999) then VIGCAT_=2;  
ELSE VIGCAT_=9;
```

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

PACAT_ *Calculated variable for 5 level physical activity category. PACAT_ is derived from the variables MODCAT_ and VIGCAT_.*

- | | | |
|---|---|--|
| 1 | Meet
recommendations
for moderate
and vigorous
physical
activity | Respondents that reported doing 30 or more minutes per day and for five or more days per week of moderate physical activity and 20 or more minutes per day and three or more days per week of vigorous physical activity (MODPACT=1 and 5 <= MODPADAY <= 7 and 30 <= _MODPAMN <= 599 and VIGPACT=1 and 3 <= VIGPADAY <= 7 and 20 <= _VIGPAMN <= 599) |
| 2 | Meet
recommendations
for vigorous
physical
activity | Respondents that reported doing 20 or more minutes per day and three or more days per week of vigorous physical activity (VIGPACT=1 and 3 <= VIGPADAY <= 7 and 20 <= _VIGPAMN <= 599) |
| 3 | Meet
recommendations
for moderate
physical
activity | Respondents that reported doing 30 or more minutes per day and for five or more days per week of moderate physical activity (MODPACT=1 and 5 <= MODPADAY <= 7 and 30 <= _MODPAMN <= 599) |
| 4 | Insufficient
activity to
meet moderate
or vigorous
recommendations | Respondents that reported doing less than 30 minutes per day or less than five days per week of moderate physical activity and less than 20 minutes per day or less than three days per week of vigorous physical activity (MODPACT=1 and MODPADAY < 5 or _MODPATIM < 30 and VIGPACT=1 and VIGPADAY < 3 or _VIGPAMN < 20) |
| 5 | No moderate or
vigorous
physical
activity | Respondents that reported doing no moderate or vigorous physical activity (MODPACT=2 or MODPACT=1 and _MODPAMN=0 and VIGPACT=2 or VIGPACT=1 and _VIGPAMN=0) |
| 9 | Don't know/
Not sure/
Refused/
Missing | Respondents who reported they didn't know whether they did moderate or vigorous physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (MODPACT=7, 9, or missing or MODPACT=1 and MODPADAY=7, 9, or missing or MODPATIM=7, 9, or missing) |

SAS Code:
 If MODCAT_=3 and VIGCAT_=3 then PACAT_=5;
 Else if MODCAT_=1 and VIGCAT_=1 then PACAT_=1;
 Else if VIGCAT_=1 then PACAT_=2;
 Else if MODCAT_=1 then PACAT_=3;
 Else if MODCAT_=2 AND VIGCAT_=2 then PACAT_=4;
 Else if MODCAT_=2 AND VIGCAT_=3 then PACAT_=4;
 Else if MODCAT_=3 AND VIGCAT_=2 then PACAT_=4;
 Else PACAT_=9;

Section 19: Physical Activity

_RFPAMOD *Calculated variable for adults that have reported participating in either moderate physical activity defined as 30 or more minutes per day for 5 or more days per week, or vigorous activity for 20 or more minutes per day on 3 or more days. _RFPAMOD is derived from the variable PACAT_.*

- | | | |
|---|---|---|
| 1 | Yes | Respondents that reported doing enough moderate or vigorous physical activity to meet the recommendations (PACAT_=1, 2, or 3) |
| 2 | No | Respondents that reported doing insufficient moderate or vigorous physical activity to meet recommendations, or respondents that reported doing no moderate or vigorous physical activity (PACAT_=4, or 5) |
| 9 | Don't know/
Not Sure/
Refused/
Missing | Respondents who reported they didn't know whether they did moderate or vigorous physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (PACAT_=9) |

SAS Code:

```
If PACAT_ = 1 then _RFPAMOD=1;  
ELSE IF PACAT_ = 2 then _RFPAMOD=1;  
ELSE IF PACAT_ = 3 then _RFPAMOD=1;  
ELSE IF PACAT_ = 4 then _RFPAMOD=2;  
ELSE IF PACAT_ = 5 then _RFPAMOD=2;  
ELSE _RFPAMOD=9;
```

Section 19: Physical Activity

_RFPVIG *Calculated variable for adults that have reported participating in vigorous activity for 20 or more minutes per day on 3 or more days.*
RFPVIG is derived from the variable **PACAT**.

- | | | |
|---|---|---|
| 1 | Yes | Respondents that reported doing enough vigorous physical activity to meet the recommendations (PACAT_=1, or 2) |
| 2 | No | Respondents that reported doing insufficient vigorous physical activity to meet recommendations, or respondents that reported doing no vigorous physical activity (PACAT_=3, 4, or 5) |
| 9 | Don't know/
Not Sure/
Refused/
Missing | Respondents who reported they didn't know whether they did vigorous physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (PACAT_=9) |

SAS Code:
If VIGCAT_ = 1 then _RFPVIG=1;
ELSE IF VIGCAT_ = 2 then _RFPVIG=2;
ELSE IF VIGCAT_ = 3 then _RFPVIG=2;
ELSE _RFPVIG=9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

_RFPAREC *Calculated variable for adults self reported physical activity level status. _RFPAREC is derived from the variable PACAT_.*

- | | | |
|---|---|---|
| 1 | Meet physical activity recommendation | Respondents that reported doing enough moderate or vigorous physical activity to meet one or both of the recommendations (PACAT_=1, 2, or 3) |
| 2 | Insufficient physical activity | Respondents that reported doing insufficient moderate or vigorous physical activity to meet either of the recommendations (PACAT_=4) |
| 3 | No physical activity | Respondents that reported doing no moderate or vigorous physical activity (PACAT_=5) |
| 9 | Don't know/
Not Sure/
Refused/
Missing | Respondents who reported they didn't know whether they did moderate or vigorous physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (PACAT_=9) |

SAS Code:
If PACAT_ = 1 then _RFPAREC=1;
ELSE IF PACAT_ = 2 then _RFPAREC=1;
ELSE IF PACAT_ = 3 then _RFPAREC=1;
ELSE IF PACAT_ = 4 then _RFPAREC=2;
ELSE IF PACAT_ = 5 then _RFPAREC=3;
ELSE IF PACAT_ = 9 then _RFPAREC=9;

Section 19: Physical Activity

_RFNOPA *Calculated variable for adults that have reported participating in physical activity or exercise. _RFNOPA is derived from the variables _RFPAREC and _TOTINDA.*

- | | | |
|---|---|---|
| 1 | Yes | Respondents that reported doing some moderate or vigorous physical activity or exercise (_RFPAREC=1, or 2 or _TOTINDA=1) |
| 2 | No | Respondents that reported doing no moderate or vigorous physical activity or exercise (_RFPAREC=3 and _TOTINDA=2) |
| 9 | Don't know/
Not Sure/
Refused/
Missing | Respondents who reported they didn't know whether they did exercise or physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses (_RFPAREC=9 and _TOTINDA=2 or _RFPAREC=3 and _TOTINDA=9 or _RFPAREC=9 and _TOTINDA=9) |

SAS Code:
IF 1 <= _RFPAREC <= 2 THEN _RFNOPA=1;
ELSE IF _TOTINDA = 1 THEN _RFNOPA=1;
ELSE IF _RFPAREC = 3 AND _TOTINDA = 2 THEN _RFNOPA=2;
ELSE _RFNOPA=9;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

_MODMNWK *Calculated variable for total minutes of moderate physical activity per week. _MODMNWK is derived from MODPACT, MODPADAY and _MODPAMN.*

0 - Minutes of Respondents who reported doing 0-999 minutes of moderate
99999 physical physical activity in a week
activity

. Don't know/ Respondents who reported they didn't know whether they
Not sure/ did moderate physical activity or didn't know how many
Refused/ days or didn't know how much time they did the activity,
Missing those who refused to answer, and those with missing
responses (MODPACT=7,9, or missing or MODPADAY=7,9, or missing or
_MODPAMN=missing)

SAS Code: IF MODPACT=1 AND 1 <= MODPADAY <= 7 THEN _MODMNWK=MODPADAY*_MODPAMN;
ELSE IF MODPACT=2 OR MODPADAY=88 THEN _MODMNWK=0;
ELSE _MODMNWK=.;

Section 19: Physical Activity

_VIGMNWK *Calculated variable for total minutes of vigorous physical activity per week. _VIGMNWK is derived from VIGPACT, VIGPADAY and _VIGPAMN.*

0 - Minutes of Respondents who reported doing 0-999 minutes of vigorous
99999 vigorous physical activity in a week
physical
activity

. Don't know/ Respondents who reported they didn't know whether they
Not sure/ did vigorous physical activity or didn't know how many
Refused/ days or didn't know how much time they did the activity,
Missing those who refused to answer, and those with missing
responses (VIGPACT=7,9, or missing or VIGDPADAY=7,9, or missing
or _VIGPAMN=missing)

SAS Code: IF VIGPACT=1 AND 1 <= VIGPADAY <= 7 THEN _VIGMNWK=VIGPADAY*_VIGPAMN;
ELSE IF VIGPACT=2 OR VIGPADAY=88 THEN _VIGMNWK=0;
ELSE _VIGMNWK=.;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

`_TOTMNWK` *Calculated variable for total minutes of physical activity per week.*
`_TOTMNWK` is derived from `_MODMNWK` and `_VIGMNWK`.

0 - Minutes of Respondents who reported doing 0-999 minutes of moderate
99999 physical or vigorous physical activity in a week
activity

. Don't know/ Respondents who reported they didn't know whether they
Not sure/ did moderate or vigorous physical activity or didn't know
Refused/ how many days or didn't know how much time they did the
Missing activity, those who refused to answer, and those with
missing responses (`MODPACT=7,9`, or missing or `MODPADAY=7,9`, or
missing or `_MODPAMN=missing` or `VIGPACT=7,9`, or missing or
`VIGPADAY=7,9`, or missing or `_VIGPAMN=missing`)

SAS Code: `_TOTMNWK = _MODMNWK + (2*_VIGMNWK);`

Section 19: Physical Activity

`_PA150RC` *Calculated variable for adults that participated in 150 minutes of
physical activity per week..* `_PA150RC` is derived from `_MODMNWK`,
`_VIGMNWK`, and `_TOTMNWK`

1 150+ minutes Respondents that reported doing enough moderate or
of physical vigorous physical activity to meet the 150-minute
activity recommendation (`_MODMNWK >= 150` or `_TOTMNWK >= 150` or `_VIGMNWK
>= 75`)

2 1-149 minutes Respondents that reported doing insufficient moderate or
of physical vigorous physical activity to meet the 150-minute
activity recommendation (`0 < _TOTMNWK < 150`)

3 0 minutes of Respondents that reported doing no moderate or vigorous
physical physical activity (`_TOTMNWK=0`)
activity

9 Don't know/ Respondents who reported they didn't know whether they
Not Sure/ did moderate or vigorous physical activity or didn't know
Refused/ how many days or didn't know how much time they did the
Missing activity, those who refused to answer, and those with
missing responses (`_MODMNWK=.` or `_VIGMNWK=.`)

SAS Code: `IF _MODMNWK >=150 or _TOTMNWK >=150 or _VIGMNWK >=75 THEN _PA150RC=1;
ELSE IF 0 < _TOTMNWK < 150 then _PA150RC =2;
ELSE IF _TOTMNWK=0 THEN _PA150RC =3;
ELSE _PA150RC =9;`

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 19: Physical Activity

_PA300RC *Calculated variable for adults that participated in 300 minutes of physical activity per week.. _PA150RC is derived from _MODMNWK, _VIGMNWK, and _TOTMNWK*

- | | | |
|---|---|---|
| 1 | 301+ minutes of physical activity | Respondents that reported doing enough moderate or vigorous physical activity to meet the 300-minute recommendation ($_MODMNWK > 300$ or $_TOTMNWK > 300$ or $_VIGMNWK > 150$) |
| 2 | 1-300 minutes of physical activity | Respondents that reported doing insufficient moderate or vigorous physical activity to meet the 300-minute recommendation ($0 < _TOTMNWK \leq 300$) |
| 3 | 0 minutes of physical activity | Respondents that reported doing no moderate or vigorous physical activity ($_TOTMNWK=0$) |
| 9 | Don't know/
Not Sure/
Refused/
Missing | Respondents who reported they didn't know whether they did moderate or vigorous physical activity or didn't know how many days or didn't know how much time they did the activity, those who refused to answer, and those with missing responses ($_MODMNWK=.$ or $_VIGMNWK=.$) |

SAS Code: IF $_MODMNWK > 300$ or $_TOTMNWK > 300$ or $_VIGMNWK > 150$ THEN $_PA300RC=1$;
ELSE IF $0 < _TOTMNWK \leq 300$ then $_PA300RC =2$;
ELSE IF $_TOTMNWK=0$ THEN $_PA300RC =3$;
ELSE $_PA300RC =9$;

Calculated Variables in the 2009 Behavioral Risk Factor Surveillance System Data
File (continued)

Section 20: HIV/AIDS

_AIDTST2 *Calculated variable for adults aged 18-64 that have ever been tested for hiv. _AIDTST2 is derived from AGE and HIVTST5.*

- | | | |
|---|-------------------------------------|--|
| 1 | Yes | Respondents with reported ages between 18 and 64 that reported to have been tested for HIV. (18<=AGE<=64 and HIVTST5=1) |
| 2 | No | Respondents with reported ages between 18 and 64 that did not report having been tested for HIV. (18<=AGE<=64 and HIVTST5=2) |
| 9 | Don't know/
Not Sure/
Refused | Respondents with reported ages between 18 and 64 that reported they did not know if they had been tested for HIV, or those with reported ages between 18 and 64 that refused to answer if they had been tested for HIV. or respondents that reported they did not know their age or respondents that refused to report their age. (18<=AGE<=64 and HIVTST5=7,9 or AGE=7,9) |
| . | Missing or Age
greater than 64 | Respondents with missing responses for HIVTST5 or respondents with reported ages older than 64 or respondents with missing age responses. (18<=AGE<=64 and HIVTST5=missing or AGE > 64 or AGE=missing) |

SAS Code:

```
IF 18 <= AGE <= 64 THEN DO;  
  IF HIVTST5=1 THEN _AIDTST2=1;  
  ELSE IF HIVTST5=2 THEN _AIDTST2=2;  
  ELSE IF HIVTST5 IN (7,9) THEN _AIDTST2=9;  
  ELSE IF HIVTST5=. THEN _AIDTST2=.;  
  END;  
  ELSE IF AGE IN (.,7,9) THEN _AIDTST2=9;  
  ELSE _AIDTST2=.;
```

Section 21: Emotional Support and Life Satisfaction

There are no calculated Variables for Section 21.

Section 22: Cancer Survivors

There are no calculated Variables for Section 22.

Section 23: Cell Phone

There are no calculated Variables for Section 23.