



**2002**

**Behavioral Risk Factor Surveillance System**

**Calculated Variables**

**(Version 13 – Revised 09/01/2005)**



## Calculated Variables on the 2002 Behavioral Risk Factor Surveillance System Data File

Variables that begin with an underscore (e.g. \_RFHYPE3) are calculated from questionnaire variables. Exceptions are: \_DENSTR, \_GEOSTR, \_RECORD, and \_STATE, which are determined before the interview.

Variables that end with an underscore are intermediate variables used to calculate risk factors and indices that are being included in the data set. (Example: FTJUDAY\_)

A number of calculated variables are used to weight the data and reflect sample design and other information, and are therefore not included in the descriptive text below. The weighting/sample design variables are:

\_AGEG\_, \_CSA, \_DENWT, \_FINALWT, \_GEOWT, \_IMPAGE, \_IMPNPH, \_MSACODE, \_POSTSTR, \_QSTVER, \_RACEG2\_, \_RAW, \_REGION, \_SEXG\_, \_STSTR, and \_WT2.

### **NEW VARIABLES FOR 2002 ARE:**

(These are intermediate variables used to calculate other calculated variables and risk factors. These have not been included with the data set in previous years.)

FTJUDAY\_, FRUTDAY\_, GNSLDAY\_, POTADAY\_, CRTSDAY\_, VEGEDAY\_, DROCCDY\_

(These are new calculated variables and risk factors for 2002.)

\_LTASTHM, \_CASTHMA, \_ASTHMST, \_EXTEETH, \_ALTEETH, \_DENTVST, \_FLUSHOT, \_PNEUMOC, BRCNTRL\_, BCMETML\_, BCMETFM\_, \_RFMAM2Y, \_RFPAP3Y, \_RFPSA2Y, \_RFBLDST, \_RFSIGMD, \_AIDSTST, \_HIGHRSK, \_STDCNDM, \_RFFRARM, \_RFFRAR2, \_MCNTRAC, \_FCNTRAC

### **VARIABLES WITH CHANGED NAMES FOR 2002 ARE:**

**ALCDAY3** changed from **ALCDAYS** due to changes in the wording of the question.

**DRNKANY3** changed from **DRNKANY2** due the change from **ALCDAYS** to **ALCDAY3**.

**\_RFBING2** changed from **\_RFBINGE** due to the change from **ALCDAYS** to **ALCDAY3**.

**\_DRNKDY2** changed from **\_DRNKDAY** due to the change from **ALCDAYS** to **ALCDAY3**.

**\_DRNKMO2** changed from **\_DRINKMO** due to the change from **\_DRNKDAY** to **\_DRNKDY2**.

**\_RFDRHV2** changed from **\_RFDRHVY** due to the change from **ALCDAYS** to **ALCDAY3** and **\_DRNKDAY** to **\_DRNKDY2**.

**\_RFDRMN2** changed from **\_RFDRKMN** due to the change from **ALCDAYS** to **ALCDAY3** and **\_DRNKDAY** to **\_DRNKDY2**.

**\_RFDRWM2** changed from **\_RFDRKWM** due to the change from **ALCDAYS** to **ALCDAY3** and **\_DRNKDAY** to **\_DRNKDY2**.

**\_RFDRDR2** was changed from **\_RFDRDRI** due to the change from **ALCDAYS** to **ALCDAY3**.

**\_RFSEAT4** was changed from **\_RFSEAT3** to include the respondents that don't drive or ride in a car in the "Not at Risk" group.

## Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

### Section 3: Exercise

**\_TOTINDA** *No leisure time physical activity or exercise during the past 30 days other than the respondent's regular job. Variable is derived from EXERANY2.*

(Meets HP 2010 Objective #22-1: No Leisure-Time Physical Activity)

- |   |                                        |                                                                                                                                                                                                                                                                  |
|---|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Not At Risk                            | Respondents who report any level of physical activity or exercise (EXERANY2=1)                                                                                                                                                                                   |
| 2 | At Risk                                | Respondents reporting no physical activity or exercise (EXERANY2=2)                                                                                                                                                                                              |
| 9 | Don't Know/ Not Sure/ Refused/ Missing | Respondents who report they "Don't know" if they have participated in any physical activity or exercise during the past 30 days or those who "Refused" to answer the physical activity/exercise question, and those with missing values (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 4: Fruits And Vegetables

**FTJUDAY\_** *Fruit juice times per day. Variable converts the FRUITJUI variable to a per day response. (Note: FTJUDAY\_ gets multiplied by 10 after \_FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)*

- |    |                                        |                                                                                                                                                                                 |
|----|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 99 | Don't Know/ Not Sure/ Refused/ Missing | Respondents who report they don't know the number times they consumed fruit juice per day, those who refused to answer, and those with missing responses (FRUITJUI=777,999,""). |
|----|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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;
FTJUDAY_=round((FTJUDAY_*10),1); *This is done after all of the fruits and vegetable calculations but the code is included here;
```

**Section 4: Fruits And Vegetables (continued)**

FRUTDAY\_ *Fruit times per day.* Variable converts the FRUIT variable to a per day response. (Note: FRUTDAY\_ gets multiplied by 10 after \_FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/ Not Sure/ Refused/ Missing Respondents who report they don't know the number times they consumed fruit per day, those who refused to answer, and those with missing responses (FRUIT=777,999,"").

**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;
FRUTDAY_=round((FRUTDAY_*10),1); *This is done after all of the fruits and vegetable calculations but the code is included here;
```

GNSLDAY\_ *Green salad times per day.* Variable converts the GREENSAL variable to a per day response. (Note: GNSLDAY\_ gets multiplied by 10 after \_FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/ Not Sure/ Refused/ Missing Respondents who report they don't know the number times they consumed green salad per day, those who refused to answer, and those with missing responses (GREENSAL=777,999,"").

**SAS code:**

```
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;
GNSLDAY_=round((GNSLDAY_*10),1); *This is done after all of the fruits and vegetable calculations but the code is included here;
```

**Section 4: Fruits And Vegetables (continued)**

POTADAY\_ *Potato times per day.* Variable converts the POTATOES variable to a per day response. (Note: POTADAY\_ gets multiplied by 10 after \_FTRINDEX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/  
Not Sure/  
Refused/  
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;
POTADAY_=round((POTADAY_*10),1); *This is done after
all of the fruits and vegetable calculations but the
code is included here;
```

CRTSDAY\_ *Carrot times per day.* Variable converts the CARROTS variable to a per day response. (Note: CRTSDAY\_ gets multiplied by 10 after \_FTRINDEX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/  
Not Sure/  
Refused/  
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 < 500 THEN CRTSDAY_=(CARROTS-
400)/365;
ELSE IF CARROTS=555 THEN CRTSDAY_=0;
ELSE IF CARROTS IN (.,777,999) THEN CRTSDAY_=99;
CRTSDAY_=round((CRTSDAY_*10),1); *This is done after
all of the fruits and vegetable calculations but the
code is included here;
```

**Section 4: Fruits And Vegetables (continued)**

VEGEDAY\_ (Vegetable Servings per day) This variable converts the VEGETABL variable to a per day response. (Note: VEGEDAY\_ gets multiplied by 10 after  
*(New variable for 2002.)* \_FTRINDX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 99 will be 990 in the final data set.)

99 Don't Know/  
 Not Sure/  
 Refused/  
 Missing Respondents who report they don't know the quantity of vegetable servings consumed per day, those who refused to answer, and those with missing responses (VEGETABL=777,999,".").

**SAS code:**

```
IF 100 < VEGETABL < 200 THEN VEGEDAY_=(VEGETABL-100);
ELSE IF 200 < VEGETABL < 300 THEN VEGEDAY_=(VEGETABL-200)/7;
ELSE IF 300 < VEGETABL < 400 THEN VEGEDAY_=(VEGETABL-300)/30;
ELSE IF 400 < VEGETABL < 500 THEN VEGEDAY_=(VEGETABL-400)/365;
ELSE IF VEGETABL=555 THEN VEGEDAY_=0;
ELSE IF VEGETABL IN (.,777,999) THEN VEGEDAY_=99;
VEGEDAY_=round((VEGEDAY_*10),1); *This is done after all of the fruits and vegetable calculations but the code is included here;
```

**Section 4: Fruits And Vegetables (continued)**

**\_FRTSERV**      *Times fruit & vegetable consumed per day.* \_FRTSERV is derived from the per day variables (FTJUDAY, FRUTDAY, GNSLDAY, POTADAY, CRTSDAY, and VEGEDAY). (Note: \_FRTSERV gets multiplied by 100 after \_FTRINDEX is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 999.99 will be 99999 in the final data set.)

999.99      Don't Know/  
Not Sure/  
Refused/  
Missing

Respondents with a 99 values for all six fruits and vegetable per day variables.

**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 =99.99;
ELSE _FRTSERV=SUM(FTJUDAY, FRUTDAY, GNSLDAY, POTADAY,
  CRTSDAY, VEGEDAY);
_FRTSERV=round((_FRTSERV *100),1); *This is done after
all of the fruits and vegetable calculations but
the code is included here;
```

**Section 4: Fruits And Vegetables (continued)**

_FRTINDX	<i>Summary fruit &amp; vegetable index.</i> _FRTINDX is derived from the	
		).
1	Less than 1 per day or never	Respondents reporting they never consume fruits and vegetables or consume less than 1 time per day (_FRTSERV<1)
2	1 to less than 3 times per day	Respondents reporting they consume fruits and vegetables 1 to less than 3 times per day (1<=_FRTSERV<3)
3	3 to less than 5 times per day	Respondents reporting they consume fruits and vegetables 3 to less than 5 times per day (3<=_FRTSERV<5)
4	5 or more times per day	Respondents reporting they consume fruits and vegetables 5 or more times per day (5<=_FRTSERV<999.99)
9		Respondents with _FRTSERV=999.99

**SAS code:**

**Section 5: Asthma**

_LTASTHM (New variable for 2002.)	<i>Risk factor for lifetime asthma prevalence.</i> Those At Risk for having been told sometime in their lifetime by a doctor, nurse or health professional that they had asthma as created from the variable ASTHMA2.	
1	Not At Risk	Have not been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=2)
2	At Risk	Have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who "Don't know", "Refused", or were missing responses to whether they had been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=7, 9, Missing)

**SAS code:**

```
IF ASTHMA2=1 THEN _LTASTHM=2;
ELSE IF ASTHMA2=2 THEN _LTASTHM=1;
ELSE _LTASTHM=9;
```

_CASTHMA (New variable for 2002.)	<i>Risk factor for current asthma prevalence.</i> Those At Risk for having been told sometime in their lifetime by a doctor, nurse or health professional that they had, and still have, asthma as created from the variables ASTHMA2 and ASTHNOW.	
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1	Not At Risk	Have not been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=2) or do not still have asthma (ASTHMA2=1 and ASTHNOW=2)
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**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

2	At Risk	Have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1) and that they still have asthma (ASTHNOW=1)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who "Don't know", "Refused", or with "Missing" values to whether they had been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=7, 9, Missing) or if they still have asthma (ASTHNOW=7, 9, Missing)
	<b>SAS code:</b>	<pre>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;</pre>

**\_ASTHMST** *Computed asthma status.* Those currently, formerly or never having been told (New variable for 2002.) that they had asthma as created from the variables ASTHMA2 and ASTHNOW.

1	Current	Have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1) and that they still have asthma (ASTHNOW=1)
2	Former	Have been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=1) but do not still have asthma (ASTHNOW=2)
3	Never	Have not been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who "Don't know", "Refused", or "Missing" values to whether they had been told by a doctor, nurse or health professional that they had asthma (ASTHMA2=7, 9, Missing) or if they still have asthma (ASTHNOW=7, 9, Missing)
	<b>SAS code:</b>	<pre>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;</pre>

**Section 7: Oral Health**

**\_EXTEETH** *Risk factor for having had permanent teeth extracted.* Variable is created (New variable for 2002.) from the RMVTEETH. (Meets Healthy People 2010 Objective 21-3: Increase the proportion of adults who have never had a permanent tooth extracted because of dental caries or periodontal disease.)

1	Not At Risk	Have had no permanent teeth removed (RMVTEETH=8).
2	At Risk	Have had permanent teeth removed (RMVTEETH=1 or 2 or 3).
9	Don't Know/ Not Sure/ Refused/ Missing	Respondent either with missing values, or refused to answer or did not know if they had any permanent teeth extracted (RMVTEETH=7, 9, Missing).
	<b>SAS code:</b>	<pre>IF RMVTEETH IN (1,2,3) THEN _EXTEETH=2; ELSE IF RMVTEETH=8 THEN _EXTEETH=1; ELSE _EXTEETH=9;</pre>

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

**\_ALTEETH**      *Risk factor for having had all permanent teeth extracted. Variable is created from RMVTEETH.*  
*(New variable for 2002.)*      (Meets Healthy People 2010 Objective 21-4: Reduce the proportion of older adults who have had all their natural teeth extracted (adults aged 65+).)

1	Not At Risk	Respondents aged 65 or more who reported having none or some natural teeth removed (RMVTEETH=1, 2, 8)
2	At Risk	Respondents aged 65 or more who reported having all natural teeth removed (RMVTEETH=3)
9	Don't Know/ Not Sure/ Refused	Respondents who refused or didn't know their age or refused or didn't know if they had any natural teeth removed (AGE=7, 9, Missing; or RMVTEETH=7, 9, Missing)
.	Missing	Respondents aged 18-64

**SAS code:**

```
IF AGE >= 65 THEN DO;
    IF RMVTEETH IN (1,2,8) THEN _ALTEETH=1;
    ELSE IF RMVTEETH=3 THEN _ALTEETH=2;
    ELSE IF RMVTEETH IN (.,7,9) THEN _ALTEETH=9;
END;
ELSE IF AGE IN (.,7,9) THEN _ALTEETH=9;
ELSE _ALTEETH=.;
```

**\_DENTVST**      *Risk factor for having visited a dentist, dental hygienist or dental clinic within the past year.*  
*(New variable for 2002.)*      (Meets Healthy People 2010 Objective 21-10: Increase the proportion of adults who use the oral health care system each year.)

1	Not At Risk	Respondents that reported having had dental visit or teeth cleaning visit in the past year (LASTDEN2=1 or DENCLEAN=1)
2	At Risk	Respondents that reported having not had dental visit or teeth cleaning visit in the past year (LASTDEN2=2, 3, or 4 and DENCLEAN=2, 3, 4, 7, 8, 9, or Missing)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents with missing values or who refused or didn't know if they had a dental visit or teeth cleaning visit in the past year (LASTDEN2=.,7,9 and DENCLEAN=7, 9, or Missing)

**SAS code:**

```
IF LASTDEN2=8 THEN _DENTVST=2;
ELSE IF LASTDEN2 IN (2,3,4) AND DENCLEAN IN
    (.,2,3,4,7,8,9) THEN _DENTVST=2;
ELSE IF LASTDEN2=1 OR DENCLEAN=1 THEN _DENTVST=1;
ELSE IF LASTDEN2 IN (.,7,9) AND DENCLEAN IN (2,3,4,8)
    THEN _DENTVST=2;
ELSE _DENTVST=9;
```

**Section 8: Immunization**

**\_FLUSHOT**      *Risk factor for respondents aged 65 and older that have had flu shot within the past 12 months. Variable is created from FLUSHOT.*  
*(New variable for 2002.)*      (Meets Healthy People 2010 Objective 14-29: Increase The Proportion Of Adults Who Are Vaccinated Annually Against Influenza – Non-institutionalized Adults Aged 65+.)

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

1	Not At Risk	Respondents aged 65 or more who reported having a flu shot within the past 12 months (FLUSHOT=1)
2	At Risk	Respondents aged 65 or more who reported not having had a flu shot within the past 12 months (FLUSHOT=2)
9	Don't Know/ Not Sure/ Refused	Respondents who refused or didn't know their age or refused or didn't know or with missing value for if they had a flu shot within the past 12 months (AGE=7, 9, Missing; or FLUSHOT=7, 9, Missing)
.	Missing <b>SAS code:</b>	<pre> Respondents aged 18-64 IF AGE GE 65 THEN DO;     IF FLUSHOT=1 THEN _FLUSHOT=1;     ELSE IF FLUSHOT=2 THEN _FLUSHOT=2;     ELSE IF FLUSHOT IN (.,7,9) THEN _FLUSHOT=9;     END; ELSE IF AGE IN (.,7,9) THEN _FLUSHOT=9; ELSE _FLUSHOT=.; </pre>

\_PNEUMOC      *Risk factor for respondents aged 65 and older that have ever had a pneumonia shot. Variable is created from the variable PNEUVAC2. (Meets Healthy People 2010 objective 14-29: Increase the proportion of adults who were ever vaccinated against pneumococcal disease - non-institutionalized adults aged 65+.)*  
*(New variable for 2002.)*

1	Not At Risk	Respondents aged 65 or more who reported having a pneumonia shot (PNEUVAC2=1)
2	At Risk	Respondents aged 65 or more who reported not having had a pneumonia shot (PNEUVAC2=2)
9	Don't Know/ Not Sure/ Refused	Respondents who refused or didn't know their age or refused or didn't know if they had a pneumonia shot (AGE=7, 9, Missing; or PNEUVAC2=7, 9, Missing)
.	Missing <b>SAS code:</b>	<pre> Respondents aged 18-64 IF AGE GE 65 THEN DO;     IF PNEUVAC2=1 THEN _PNEUMOC=1;     ELSE IF PNEUVAC2=2 THEN _PNEUMOC=2;     ELSE IF PNEUVAC2 IN (.,7,9) THEN _PNEUMOC=9;     END; ELSE IF AGE IN (.,7,9) THEN _PNEUMOC=9; ELSE _PNEUMOC=.; </pre>

**Section 9: Tobacco Use**

\_SMOKER2      *Four level smoker status. Variable is derived from SMOKE100 and SMOKEDAY.*

1	Current Smoker (every day)	Respondents who have smoked at least 100 cigarettes in their lifetime and now smoke every day (SMOKE100=1 and SMOKEDAY=1)
2	Current Smoker (some days)	Respondents who have smoked at least 100 cigarettes in their lifetime and now smoke some days (SMOKE100=1 and SMOKEDAY=2)

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

3	Former Smoker	Respondents who have smoked at least 100 cigarettes in their lifetime and currently do not smoke (SMOKE100=1 and SMOKEDAY=3)
4	Never Smoked	Respondents who have not smoked at least 100 cigarettes in their lifetime (SMOKE100=2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they "Don't know" or "Refused" or had missing values for if they have smoked at least 100 cigarettes in their lifetime or whether they smoke now (SMOKE100=7, 9, Missing; or SMOKEDAY=7, 9, Missing)

**SAS code:**

```

IF SMOKE100=2 THEN _SMOKER2=4;
ELSE IF SMOKE100=1 THEN DO;
    IF SMOKEDAY=1 THEN _SMOKER2=1;
    ELSE IF SMOKEDAY=2 THEN _SMOKER2=2;
    ELSE IF SMOKEDAY=3 THEN _SMOKER2=3;
    ELSE _SMOKER2=9;
END;
ELSE _SMOKER2=9;

```

**\_RFSMOK2**      *Risk factor for current smoking status. Variable derived from \_SMOKER2.*

1	Not At Risk	Respondents who have not smoked at least 100 cigarettes in their lifetime or those who have smoked 100 cigarettes in their lifetime but do not currently smoke (_SMOKER2=3, 4)
2	At Risk	Respondents who have smoked at least 100 cigarettes in their lifetime and now smoke (_SMOKER2=1, 2)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents who reported they "don't know" or refused or with missing values for if they have smoked at least 100 cigarettes in their lifetime or whether they smoke now (SMOKER2=9)

**SAS code:**

```

IF _SMOKER2 IN (1,2) THEN _RFSMOK2=2;
ELSE IF _SMOKER2 IN (3,4) THEN _RFSMOK2=1;
ELSE _RFSMOK2=9;

```

**Section 10: Alcohol Consumption**

**DROCCDY\_**      *Drink-occasions-per-day. Variable created by dividing ALCDAY3 by 7 days per week or 30 days per month. If (ALCDAY3=777, 999, Missing) then value is equal to "9". (Note: DROCCDY\_ gets multiplied by 100 after \_RFCRDR2 is created and before the final data set is created and gets stored in the ASCII file and in the dbf data set with no decimal places, so a value of 1.23 will be 123 in the final data set.)*

**SAS code:**

```

IF 101 LE ALCDAY3 LE 107 THEN DROCCDY_=(ALCDAY3-100)/7;
ELSE IF 201 LE ALCDAY3 LE 230 THEN DROCCDY_=(ALCDAY3-200)/30;
ELSE IF ALCDAY3 EQ 888 THEN DROCCDY_=0;
ELSE IF ALCDAY3 IN (.,777,999) THEN DROCCDY_=9;
DROCCDY_=round((DROCCDY_*100),1); *This is done after all of the fruits and vegetable calculations but the code is included here;

```

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

**DRNKANY3** *Alcoholic Beverages in Past Month.* Variable is derived from ALCDAY3 and collapses ALCDAY3 into a “Yes/No” variable. Variable name was changed from 2001 due to the change from ALCDAYS to ALCDAY3.  
(Variable changed from 2001.)

- 1 Yes Respondents who did report drinking alcohol in the past 30 days (ALCDAY3 < 231)
- 2 No Respondents who reported they did not drink alcohol in the past 30 days (ALCDAY3=888)
- 7 Don't know/ Not Sure Respondents who reported they “Don't know” or were “Not sure” if they had a drink alcohol in the past 30 days (ALCDAY3=777)
- 9 Refused/ Missing Respondents who refused to answer or with missing values for if they had a drink in the past 30 days (ALCDAY3=999, Missing)

**SAS code:**

```
IF ALCDAY3 < 231 THEN DRNKANY3=1;
ELSE IF ALCDAY3=888 THEN DRNKANY3=2;
ELSE IF ALCDAY3=777 THEN DRNKANY3=7;
ELSE DRNKANY3=9;
```

**\_RFBING2** *Risk factor for binge drinking.* Variable is derived from DRNK2GE5 and ALCDAY3. Binge drinking is defined as having five or more drinks on an occasion. Variable name was changed from 2001 due to the change from ALCDAYS to ALCDAY3.  
(Variable changed from 2001.)

- 1 Not At Risk Respondents who report they did not drink in the past 30 days or did drink in the past 30 days but did not have five or more drinks on an occasion (ALCDAY3<231; and DRNK2GE5=0, 88; or ALCDAY3=888)
- 2 At Risk Respondents who report they did drink in the past 30 days and had five or more drinks on one or more occasions in the past month (ALCDAY3<231 and 1<=DRNK2GE5<=76)
- 9 Don't Know/ Not Sure/ Refused/ Missing Respondents who reported they “don't know” or refused or with missing values for if they had five or more drinks on an occasion or whether they consumed alcoholic beverages in the past 30 days (DRNK2GE5=77, 99, Missing; or ALCDAY3=777, 999, Missing)

**SAS code:**

```
IF ALCDAY3 NOTIN (777,888,999, .) THEN DO;
    IF (1 LE DRNK2GE5 LE 76) THEN _RFBING2=2;
    ELSE IF DRNK2GE5 IN (.,77,99) THEN _RFBING2=9;
    ELSE IF DRNK2GE5 IN (88) THEN _RFBING2=1;
    END;
ELSE IF ALCDAY3 IN (888) THEN _RFBING2=1;
ELSE _RFBING2=9;
```

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

\_DRNKDY2  
(Variable changed from 2001.) This variable is derived from DROCCDY\_ and AVEDRNK. It is derived by multiplying the total number of occasions per day (DROCCDY\_) by the average number of drinks per occasion (AVEDRNK). Respondents who did not drink in the past month (DROCCDY\_=0) are assigned the value 0. Respondents who refused, did not know the quantity consumed or with missing responses (AVEDRNK=.,77,99) or refused, with missing responses or did not know how many times per day they consumed alcohol (DROCCDY\_=9) are assigned the value 99. DRNKDY2 is stored in the data set with two implied decimal places. To get the actual value, divide DRNKDY2 by 100. (Variable name was changed from 2001 due to the change to DROCCDY\_.)

**SAS code:**  

```
IF DROCCDY_=0 THEN _DRNKDY2=0;
ELSE IF DROCCDY_=9 THEN _DRNKDY2=99;
ELSE IF AVEDRNK IN (.,77,99) THEN _DRNKDY2=99;
ELSE _DRNKDY2=AVEDRNK * DROCCDY_;
_DRNKDY2=ROUND((_DRNKDY2*100),1); *This is done after
all of the alcohol calculations but the code is
included here;
```

\_DRNKMO2  
(Variable changed from 2001.) *Total Number of Drinks a Month.* Variable is derived from the variable \_DRNKDY2 by multiplying \_DRNKDY2 by 30. Respondents who did not drink the past month are assigned the value “0”. Respondents who “Refused” or “Don’t know” the quantity consumed are assigned the value “9999”. Respondents with a “Missing” response are assigned “.”. Variable name was changed from 2001 due to the change from \_DRNKDAY to \_DRNKDY2.

**SAS code:**  

```
IF _DRNKDY2 NOTIN (.,99) THEN _DRNKMO2=_DRNKDY2*30;
ELSE IF _DRNKDY2=99 THEN _DRNKMO2=9999;
ELSE _DRNKMO2=.;
_DRNKMO2=ROUND(_DRNKMO2,1); *This is done after all of
the alcohol calculations but the code is included
here;
```

\_RFDRHV2  
(Variable changed from 2001.) *Risk factor for heavy drinking.* Variable derived from \_DRNKDY2, ALCDAY3, and SEX. Heavy drinking defined as: Men having an average of more than 2 drinks per day and females having an average of more than 1 drink per day. (\_DRNKDY2 has two implied decimal places therefore, two drinks per day are equal to \_DRNKDY2=200.) Variable name was changed from 2001 due to the change from ALCDAYS to ALCDAY3 and \_DRNKDAY to \_DRNKDY2.

- |   |             |                                                                                                                                                                                                                                                             |
|---|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Not At Risk | Male respondents who report they had less than or equal to 2 drinks per day, or female respondents who report they had less than or equal to 1 drinks per day (Sex=1 and <u>_DRNKDY2</u> <= 200 or Sex=2 and <u>_DRNKDY2</u> <= 100 or <u>ALCDAY3</u> =888) |
| 2 | At Risk     | Male respondents who report they had more than 2 drinks per day, or female respondents who report they had more than 1 drink per day (Sex=1 and <u>_DRNKDY2</u> > 200 or Sex=2 and <u>_DRNKDY2</u> > 100)                                                   |

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

9 Don't Know/  
Not Sure/  
Refused/  
Missing

Respondents that reported they don't know or refused or with missing data for the number or drinks they had in the last 30 days (ALCDAY3=(777, 999, Missing))

**SAS code:**

```
IF SEX=1 AND _DRNKDY2 NOTIN (99,.) THEN DO;
  IF _DRNKDY2 GT 2 THEN _RFDRHV2=2;
  ELSE IF _DRNKDY2 LE 2 THEN _RFDRHV2=1;
  END;
ELSE IF SEX=2 AND _DRNKDY2 NOTIN (99,.) THEN DO;
  IF _DRNKDY2 GT 1 THEN _RFDRHV2=2;
  ELSE IF _DRNKDY2 LE 1 THEN _RFDRHV2=1;
  END;
ELSE IF ALCDAY3 IN (888) THEN _RFDRHV2=1;
ELSE _RFDRHV2=9;
```

\_RFDRMN2  
(Variable changed  
from 2001.)

*Heavy drinking among men risk factor.* This variable is derived from \_DRNKDY2 and SEX and ALCDAY3. Heavy drinking among men is defined as having an average of more than 2 drinks per day. (\_DRNKDY2 has two implied decimal places therefore, two drinks per day are equal to \_DRNKDY2=200.) (Variable name was changed from 2001 due to the change from ALCDAYS to ALCDAY3 and \_DRNKDAY to \_DRNKDY2.)

1 Not At Risk Male respondents who report they had less than or equal to 2 drinks per day, (SEX=1 and \_DRNKDY2 <= 200 or ALCDAY3=888)

2 At Risk Male respondents who report they had more than 2 drinks per day, (SEX=1 and \_DRNKDY2 > 200)

9 Don't Know/  
Not Sure/  
Refused/  
Missing  
Female

Male respondents who report they "Don't know" or "Refused" or with missing values for the number or drinks they had in the last 30 days (SEX=1 and ALCDAY3=(777,999, Missing)).

Female respondents (SEX=2).

**SAS code:**

```
IF SEX=1 THEN DO;
  IF _DRNKDY2 NOTIN (99,.) THEN DO;
    IF _DRNKDY2 GT 2 THEN _RFDRMN2=2;
    ELSE IF _DRNKDY2 LE 2 THEN _RFDRMN2=1;
    END;
  ELSE IF ALCDAY3 IN (888) THEN _RFDRMN2=1;
  ELSE IF ALCDAY3 IN (.,777,999) THEN _RFDRMN2=9;
  END;
ELSE IF SEX=2 THEN _RFDRMN2=.;
```

\_RFDRWM2  
(Variable changed  
from 2001.)

*Risk factor for heavy drinking among females.* Variable is derived from \_DRNKDY2, SEX, and ALCDAY3. Heavy drinking among women is defined as having an average of more than 1 drink per day. (\_DRNKDY2 has two implied decimal places therefore, one drink per day are equal to \_DRNKDY2=100.) Variable name was changed from 2001 due to the change from ALCDAYS to ALCDAY3 and \_DRNKDAY to \_DRNKDY2.

1 Not At Risk Female respondents who report they had less than or equal to 1 drink per day, (SEX=2 and \_DRNKDY2<=100 or ALCDAY3=888)

2 At Risk Female respondents who report they had more than 1 drink per day, (SEX=2 and \_DRNKDY2>100)

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

9 Don't Know/  
Not Sure/  
Refused/  
Missing

Male respondents who report they “don’t know” or refused or with missing values for the number or drinks they had in the last 30 days (SEX=2 and ALCDAY3=(777, 999, Missing))

Male  
**SAS code:**

```
Male respondents (SEX=1)
IF SEX=2 THEN DO;
  IF _DRNKDY2 NOTIN (99,.) THEN DO;
    IF _DRNKDY2 GT 1 THEN _RFDRWM2=2;
    ELSE IF _DRNKDY2 LE 1 THEN _RFDRWM2=1;
  END;
  ELSE IF ALCDAY3 IN (888) THEN _RFDRWM2=1;
  ELSE IF ALCDAY3 IN (.,777,999) THEN _RFDRWM2=9;
  ELSE _RFDRWM2=9;
END;
ELSE IF SEX=1 THEN _RFDRWM2=.;
```

\_RFDRDR2  
(Variable changed  
from 2000.)

*Risk factor for drinking and driving.* Variable derived from ALCDAY3 and DRINKDRI. At Risk is defined as those that report they drank alcohol in the past 30 days and have driven when they’ve had perhaps too much to drink. ( $1 < ALCDAY3 < 777$  and  $1 < DRINKDRI < 77$ .) Variable name was changed from 2001 due to the change from ALCDAYS to ALCDAY3.

1 Not At Risk Respondents who did not have alcoholic beverages in the past month or respondents who had alcoholic beverages in the past month but did not drive a car after having too much to drink (ALCDAY3=888 or  $ALCDAY3 < 777$  and DRINKDRI=88)

2 At Risk Respondents who had alcoholic beverages in the past month and have driven after having too much to drink one or more times in the past month ( $ALCDAY3 < 777$  and  $DRINKDRI < 77$ )

9 Don't Know/  
Not Sure/  
Refused/  
Missing Respondents who “don’t know”, refused or with missing data for if they have driven after having too much to drink (DRINKDRI=77, 99, Missing or ALCDAY3=999, Missing)

**SAS code:**

```
IF ALCDAY3 < 777 THEN DO;
  IF 1 LE DRINKDRI LT 77 THEN _RFDRDR2=2;
  ELSE IF DRINKDRI=88 THEN _RFDRDR2=1;
  ELSE IF DRINKDRI IN (.,77,99) THEN _RFDRDR2=9;
END;
ELSE IF ALCDAY3=888 THEN _RFDRDR2=1;
ELSE _RFDRDR2=9;
```

**Section 11: Seatbelts**

**\_RFSEAT2**      *Risk factor for always or nearly always wear seatbelt.* Variable derived from SEATBELT. Respondents “At Risk” are those that report they “Sometimes”, “Seldom”, or “Never” wear seatbelts when they drive or ride in a car.  
(Meets Healthy People 2010 objective 15-19: Increase use of safety belts.)

1	Not At Risk	Respondents that report they always or nearly always use a seatbelt when they ride or drive in a car or they never drive or ride in a car (SEATBELT=1 or 2 or 8).
2	At Risk	Respondents that report they sometimes, seldom or never use a seatbelt when they ride or drive in a car (SEATBELT=3 or 4 or 5).
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents that report they don't know, are not sure, refused or with missing responses for if they use a seatbelt when they ride or drive in a car (SEATBELT=.,7,9).

**SAS code:**  
IF SEATBELT IN (1,2,8) THEN \_RFSEAT2=1;  
ELSE IF SEATBELT IN (3,4,5) THEN \_RFSEAT2=2;  
ELSE \_RFSEAT2=9;

**\_RFSEAT4**      *Risk factor for always wear seatbelt.* Variable is derived from SEATBELT. Respondents “At Risk” are those that report they “Nearly always”, “Sometimes”, “Seldom”, or “Never” wear seatbelts when they drive or ride in a car. Variable name was changed from 1998 to include the respondents that don't ride or drive in a car in the “Not At Risk” group.  
(Meets Healthy People 2010 objective 15-19: Increase use of safety belts.)

*(Variable changed from 1998.)*

1	Not At Risk	Respondents that report they always use a seatbelt when they ride or drive in a car or they never drive or ride in a car (SEATBELT=1,8)
2	At Risk	Respondents that report they nearly always, sometimes, seldom or never use a seatbelt when they ride or drive in a car (SEATBELT=2, 3, 4, 5)
9	Don't Know/ Not Sure/ Refused/ Missing	Respondents that reported they don't know, are not sure, refused or have missing responses to if they use a seatbelt when they ride or drive in a car (SEATBELT=7, 9, Missing)

**SAS code:**  
IF SEATBELT IN (1,8) THEN \_RFSEAT4=1;  
ELSE IF SEATBELT IN (2,3,4,5) THEN \_RFSEAT4=2;  
ELSE \_RFSEAT4=9;

**Section 12: Demographics Race variables**

**MRACEORG**      *Reported MRACE variable with trailing 7,8,9's removed. Variable is derived from MRACE. "ORG", refers to 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. (Example: If MRACE=3147 then MRACEORG=314.)*

**SAS code:**

```

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

```

**MRACEASC**      *Reported MRACE variable with trailing 7,8,9's removed, in ascending order. Variable is derived from MRACEORG. The values that make up MRACEORG are sorted from smallest to largest. (Example: If MRACEORG=513 then MRACEASC=135.)*

**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.);

```

**\_PRACE**      *Preferred race category. Variable 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. Hispanic or Latino information is not used to derive this variable.*

- |   |                                           |                                                                                                                         |
|---|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1 | White                                     | Respondents who report their race as white<br>(MRACE=1 or if MRACEASC>11 and ORACE2=1)                                  |
| 2 | Black                                     | Respondents who report their race as black.<br>(MRACE=2 or if MRACEASC>11 and ORACE2=2)                                 |
| 3 | Asian                                     | Respondents who report they are Asian<br>(MRACE=3 or if MRACEASC>11 and ORACE2=3)                                       |
| 4 | Native Hawaiian<br>or Pacific<br>Islander | Respondents who report their race as Native Hawaiian or Pacific<br>Islander<br>(MRACE=4 or if MRACEASC>11 and ORACE2=4) |
| 5 | American<br>Indian, Alaska<br>Native      | Respondents who report their race as American Indian or Alaska<br>Native<br>(MRACE=5 or if MRACEASC>11 and ORACE2=5).   |

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

6	Other Race	Respondents who report they are of some other race group not listed in the question responses (MRACE=6 or if MRACEASC>11 and ORACE2=6).
7	No Preferred Race	Respondents who report they are of more than one race group but do not report a preference or preferred race is missing (MRACEASC>11 and ORACE2=7,9).
8	Multiracial (Preferred Race Not Asked)	Respondents who report they are of more than one race group but did not answer the question about which race best represents them <b>NOTE: This is a data collection error.</b> (MRACEASC >11 and ORACE2=8) or (MRACEASC >11 and ORACE2=.).
77	Don't Know	Respondents who reported they "Don'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;
```

\_MRACE      *Multiracial Race categorization.* Variable is derived from MRACEASC. If respondents report more than one race they are assigned to the multiracial category. Otherwise \_MRACE=MRACEASC. Hispanic or Latino information not used in defining this variable.

01	White only	Respondents who report they are white. (MRACEASC=1)
02	Black only	Respondents who report they are black. (MRACEASC=2)
03	Asian only	Respondents who report they are Asian. (MRACEASC=3)
04	Native Hawaiian or Pacific Islander only	Respondents who report they are Native Hawaiian or Pacific Islander (MRACEASC=4)
05	American Indian, Alaska Native only	Respondents who report they are American Indian or Alaska Native. (MRACEASC=5)
06	Other Race only	Respondents who report they are of some other race group not listed in the question responses (MRACEASC=6)
07	Multiracial	Respondents who report they are of more than one race group but do not specify a preferred race (MRACEASC>11)
77	Don't Know/ Not Sure	Respondents who reported they "Don't know" their race (MRACEASC=7)
99	Refused	Respondents who "Refused" to give their race information (MRACEASC=9)

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

**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;

RACE2 *Race/Ethnicity categories.* Variable is derived from \_MRACE and HISPANC2. All of those that report they are of Hispanic or Latino origin are coded as Hispanic.

- |   |                                                        |                                                                                                                                                                                                                   |
|---|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | White only,<br>Non-Hispanic                            | Respondents who report they are white but not of Hispanic origin. (_MRACE=01 and HISPANC2=2)                                                                                                                      |
| 2 | Black only, Non-Hispanic                               | Respondents who report they are black but not of Hispanic origin. (_MRACE=02 and HISPANC2=2)                                                                                                                      |
| 3 | Asian only, Non-Hispanic                               | Respondents who report they are Asian and not of Hispanic origin. (_MRACE=03 and HISPANC2=2)                                                                                                                      |
| 4 | Native Hawaiian or Pacific Islander only, Non-Hispanic | Respondents who report they are Native Hawaiian or Islander and not of Hispanic origin (_MRACE=04 and HISPANC2=2)                                                                                                 |
| 5 | American Indian, Alaska Native only, Non-Hispanic      | Respondents who report they are American Indian or Alaska Native and not of Hispanic origin (_MRACE=05 and HISPANC2=2)                                                                                            |
| 6 | Other Race only, Non-Hispanic                          | Respondents who report they are of some other race group not listed in the question responses and are not of Hispanic origin (_MRACE=06 and HISPANC2=2)                                                           |
| 7 | Multiracial, Non-Hispanic                              | Respondents who report they are of more than one race group and are not of Hispanic origin (_MRACE=07 and HISPANC2=2)                                                                                             |
| 8 | Hispanic                                               | Respondents who report they are of Hispanic origin (HISPANC2=1)                                                                                                                                                   |
| 9 | Don't Know/ Not Sure/ Refused/ Missing                 | Respondents who "Don't know" or "Refused" to give their race and are not of Hispanic origin or "Don't know" if they are of Hispanic origin or "Refused" to answer (_MRACE =77,99 and HISPANC2=2, or HISPANC2=7,9) |

**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;

\_RACEG2 *White/Hispanic race group.* This variable is derived from RACE2.

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

1	White only, Non-Hispanic	Respondents who report they are white but they are not of Hispanic origin (RACE2=1)
2	Non-White, Multiracial or Hispanic	All other respondents with valid RACE2 responses (RACE2=2, 3, 4, 5, 6, 7, 8)
9	Don't Know/ Not Sure/ Refused/ Missing <b>SAS code:</b>	Respondents who “Don’t know/Not sure”, or “Refused” to give their race or if they are of Hispanic origin or refused to give their race or Hispanic origin or were missing values for RACE2 (RACE2=9) 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;

**\_RACEGR2** *Five-level race/ethnicity category.* This variable is derived from RACE2.

1	White only, Non-Hispanic	Respondents who report they are white but they are not of Hispanic origin (RACE2=1)
2	Black only, Non- Hispanic	Respondents who report they are black but they are not of Hispanic origin (RACE2=2)
3	Other Race only, Non-Hispanic	All other respondents with valid race response, but not multiracial and not of Hispanic origin (RACE2=3,4,5,6)
4	Multiracial, Non-Hispanic	All other respondents with multiracial responses and not of Hispanic origin (RACE2=7)
5	Hispanic	Respondents who report that they are of Hispanic origin (RACE2=8)
9	Don't Know/ Not Sure/ Refused <b>SAS code:</b>	Respondents who “didn’t know” their race or Hispanic origin and “refused” to give their race or Hispanic origin (RACE2=9) 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 EQ 7 THEN _RACEGR2=4; ELSE IF RACE2 EQ 8 THEN _RACEGR2=5; ELSE IF RACE2=9 THEN _RACEGR2=9;

**\_CNRACE** *Number of census race categories chosen.* Variable derived from MRACEASC (MRACE) and is equal to the number of chosen “census” race categories from 0-5: (White, Black, Asian, Native Hawaiian/Pacific Islander, American Indian/Alaska Native). If MRACEASC is between 1 and 5 then \_CNRACE is equal to 1. If MRACEASC is between 6 and 9 then \_CNRACE is equal to zero.

**SAS code:**

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

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

**\_CNRACEC**      *Number of census race categories chosen, collapsed.* This variable is derived from **\_CNRACE**. If **CNRACE** is equal to zero then **\_CNRACEC** is set to missing. If **CNRACE** is equal to one then **\_CNRACEC** is equal to one. If **CNRACE** is greater than one then **\_CNRACEC** is equal to two.

- |   |                                        |                                                                                                                                                                    |
|---|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | One category                           | One census race category chosen by the respondent                                                                                                                  |
| 2 | More than one category                 | Two or more census race categories chosen by the respondent                                                                                                        |
| . | Don't Know/ Not Sure/ Refused/ Missing | Respondent either did not chose any categories, answered "Other", "Don't know", or "Refused" to answer race question, or had a missing value for <b>_CNRACEC</b> . |

**SAS code:**  

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

**Section 12: Demographics Age variables**

**\_AGEG5YR**      *Fourteen-level age category.* This variable is derived from the variable **AGE** and breaks it into 14 categories, most of them are five year groups.

- |    |                                        |                                                                                          |
|----|----------------------------------------|------------------------------------------------------------------------------------------|
| 01 | 18-24                                  | Respondents with ages including 18-24                                                    |
| 02 | 25-29                                  | Respondents with ages including 25-29                                                    |
| 03 | 30-34                                  | Respondents with ages including 30-34                                                    |
| 04 | 35-39                                  | Respondents with ages including 35-39                                                    |
| 05 | 40-44                                  | Respondents with ages including 40-44                                                    |
| 06 | 45-49                                  | Respondents with ages including 45-49                                                    |
| 07 | 50-54                                  | Respondents with ages including 50-54                                                    |
| 08 | 55-59                                  | Respondents with ages including 55-59                                                    |
| 09 | 60-64                                  | Respondents with ages including 60-64                                                    |
| 10 | 65-69                                  | Respondents with ages including 65-69                                                    |
| 11 | 70-74                                  | Respondents with ages including 70-74                                                    |
| 12 | 75-79                                  | Respondents with ages including 75-79                                                    |
| 13 | 80-99                                  | Respondents with ages including 80-99                                                    |
| 14 | Don't Know/ Not Sure/ Refused/ Missing | Respondents with unknown, refused or missing values for age ( <b>AGE</b> =7, 9, Missing) |

**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;
```

## Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

<b>_AGE65YR</b>		<i>Two-level age category.</i> This variable is derived from the variable AGE and breaks it into 3 categories.
1	18-64	Respondents with ages less than or equal to 64 (AGE <=64)
2	65-99	Respondents with ages greater than 64 (AGE > 64)
3	Don't Know/ Not Sure/ Refused/ Missing	Respondents with unknown or missing age values or those that refused to give an age value (AGE=7, 9, Missing)
<b>SAS code:</b>		<pre>IF 18 LE AGE LE 64 THEN _AGE65YR=1; ELSE IF 65 LE AGE LE 99 THEN _AGE65YR=2; ELSE _AGE65YR=3;</pre>

### **Section 12: Demographics Overweight & Obese**

**HTIN** *Reported height in inches.* Variable is derived from HEIGHT. It uses the foot portion of HEIGHT multiplied by 12, plus the inch portion to calculate overall height in inches. (Note: HTIN gets rounded after all of the BMI calculations occur to make sure that there are no decimals.)

**SAS code:**

```
* CREATE HEIGHT1 CHARACTER VARIABLE;
HEIGHT1=PUT(HEIGHT,3.);
IF HEIGHT NOT IN (777,999) THEN DO;
HTIN=(INPUT((SUBSTR(HEIGHT1,2,2)),2.)) +
      ((INPUT((SUBSTR(HEIGHT1,1,1)),1.))*12);
END;

HTIN = round(HTIN,1); *
IF HTIN=. THEN HTIN=99; *This is done after all of the
BMI calculations but the code is included here;
```

**HTM** *Reported height in meters.* Variable is derived from the variable HTIN. Height in inches is converted to height in centimeters by using the conversion factor 2.54 cm/in. (Note: HTM is stored in the data set with two implied decimal places. It gets rounded after all of the BMI calculations are completed therefore all calculations include the decimals.)

**SAS code:**

```
HTM=(HTIN * 2.54) / 100;

HTM = round((HTM*100),1); *
IF HTM=. THEN HTM=999; *This is done after all of
the BMI calculations but the code is included here;
```

**WTKG** *Reported weight in kilograms.* Variable is derived from WEIGHT. Weight in pounds is converted to weight in kilograms by using the conversion factor 2.2 kg/lb. (Note: WTKG is stored in the data set with two implied decimal places. It gets rounded after all of the BMI calculations are completed therefore all calculations include the decimals.)

**SAS code:**

```
IF WEIGHT NOT IN (777,999) THEN DO;
WTKG=WEIGHT / 2.2;
END;

WTKG = round((WTKG*100),1); *
IF WTKG=. THEN WTKG=99999; *This is done after all of
the BMI calculations but the code is included here;
```

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

**\_BMI2**                    *Body Mass Index (BMI)*. Variable is derived from the variables HTM and WTKG. BMI is equal to WTKG divided by HTM<sup>2</sup>. (Note: Final \_BMI2 value is rounded so it is free of decimals.)

**SAS code:**            IF (WTKG NOTIN (.)) AND (HTM NOTIN (.)) THEN \_BMI2= WTKG / (HTM \*\* 2);  
 ELSE \_BMI2=.;  
 IF \_BMI2 GT 99.98 THEN \_BMI2 = 99.98;  
 ELSE IF \_BMI2=. THEN \_BMI2 = 99.99;  
  
 \_BMI2 = ROUND((\_BMI2\*100),1); \*This is done after all of the BMI calculations but the code is included here;

**\_BMI2CAT**            *Three-level Body Mass Index (BMI) category*. Variable is derived from \_BMI2.

- |   |                                              |                                                                                                                                                                                       |
|---|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Not Overweight<br>or Obese                   | Respondents with a body mass index less than 25.00                                                                                                                                    |
| 2 | Overweight                                   | Respondents with a body mass index equal to or greater than 25.00 but less than 30.00                                                                                                 |
| 3 | Obese                                        | Respondents with a body mass index equal to or greater than 30.00 but less than 99.99                                                                                                 |
| 9 | Don't Know/ Not<br>Sure/ Refused/<br>Missing | Respondents who "Don't know" or "Refused" to answer the height or weight questions or have missing data for height or weight prohibiting calculation of body mass index (_BMI2=99.99) |

**SAS code:**            IF ( 0.00 LE \_BMI2 < 25.00) THEN \_BMI2CAT = 1;  
 ELSE IF (25.00 LE \_BMI2 < 30.00) THEN \_BMI2CAT = 2;  
 ELSE IF (30.00 LE \_BMI2 < 99.99) THEN \_BMI2CAT = 3;  
 ELSE IF (\_BMI2 = 99.99) THEN \_BMI2CAT = 9;

**\_RFBMI2**            *Risk factor for overweight or obese*.

- |   |                                              |                                                                                                                                                                                      |
|---|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Not At Risk                                  | Respondents with a body mass index less than 25.00                                                                                                                                   |
| 2 | At Risk                                      | Respondents with a body mass index equal to or greater than 25.00 but less than 99.99                                                                                                |
| 9 | Don't Know/ Not<br>Sure/ Refused/<br>Missing | Respondents who "don't know" or "refused" to answer the height or weight questions or had missing data for height or weight prohibiting calculation of body mass index (_BMI2=99.99) |

**SAS code:**            IF ( 0.00 LE \_BMI2 < 25.00) THEN \_RFBMI2 = 1;  
 ELSE IF (25.00 LE \_BMI2 < 99.99) THEN \_RFBMI2 = 2;  
 ELSE IF (\_BMI2 = 99.99) THEN \_RFBMI2 = 9;

**Section 13: Family Planning**

**BRCNTRL\_**      *Use of birth control categories.* Variable is derived from NOBCUSE.  
 (New variable for 2002.)

- 1      Yes      Respondents that report they use birth control (NOBCUSE=9,10,11)
- 2      No      Respondents that report they do not use birth control (NOBCUSE=2,4,5,6,7,8,12,13,14,15,16)
- 3      Want Pregnancy      Respondents that report they are not doing anything to keep from getting pregnant because they want a pregnancy (NOBCUSE=3)
- 4      Not Active/ No Partner/ Same Sex Partner      Respondents that report they are not sexually active, have no partner, or have a same sex partner (NOBCUSE=1,17)
- 9      Don't Know/ Not Sure/ Refused      Respondents that report they don't know, are not sure, or refuse to answer what the main reason for not doing anything to keep you/your partner from getting pregnant (NOBCUSE=77,99)
- .      Missing      Respondents that report their partner or they are pregnant now or are missing responses for NOBCUSE (NOBCUSE=.,18), or female respondents 45 years old or older (SEX=2 and AGE>=45) or male respondents 60 years old or older (SEX=1 and AGE>=60) or respondents that answered yes, no partner/not sexually active, same sex partner, don't know/not sure or refused to whether they were doing anything to keep from getting pregnant (BRTHCNT2=.,1,3,4,7,9.)

**SAS code:**

```
IF (SEX=1 AND (18 <= AGE <= 59)) OR (SEX=2 AND (18 <= AGE <= 44)) THEN DO;
IF NOBCUSE IN (09,10,11) THEN BRCNTRL_=1;
ELSE IF NOBCUSE IN (02,04,05,06,07,08,12,13,14,15,16) THEN BRCNTRL_=2;
ELSE IF NOBCUSE IN (03) THEN BRCNTRL_=3;
ELSE IF NOBCUSE IN (01,17) THEN BRCNTRL_=4;
ELSE IF NOBCUSE IN (77,99) THEN BRCNTRL_=9;
ELSE IF NOBCUSE IN (18) THEN BRCNTRL_=.;
END;
ELSE IF AGE IN (.,7.9) THEN BRCNTRL_=9;
ELSE BRCNTRL_=.;
```

**BCMETML\_**      *Male birth control method categories.* This variable is derived from the variables (New variable for 2002.)  
 TYPCNTR2 and OTHERBC.

- 1      Surgical      Respondents who report using sterilization or vasectomy to keep from getting pregnant (TYPCNTR2=1,2 or OTHERBC=1,2)
- 2      Contraception      Respondents who report using a method of contraception to keep from getting pregnant (TYPCNTR2=3,4,5,6,7,8,9,10,11,13 or OTHERBC=3,4,5,6,7,8,9,10,11,13)
- 3      Not Active/ No Partner      Respondents who report they have no partner or are not sexually active (TYPCNTR2=12)

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

9 Don't Know/ Not Sure/ Refused  
 . Missing  
 Male respondents that report they don't know, are not sure, refuse, or have missing data for what they are doing now to keep from getting pregnant (TYPCNTR2=77,99,Missing or OTHERBC=77,99,Missing). Female respondents (SEX=2), or male respondents 60 years old or older (SEX=1 and AGE>=60) or respondents that answered no, no partner/not sexually active, same sex partner, don't know/not sure or refused to whether they were doing anything to keep from getting pregnant (BRTHCNT2=2,3,4,7,9,Missing.)

**SAS code:**  
 IF SEX=1 AND (18 <= AGE <= 59) THEN DO;  
 IF TYPCNTR2 IN (01,02) OR OTHERBC IN (01,02) THEN  
 BCMETML\_=1;  
 ELSE IF TYPCNTR2 IN (03,04,05,06,07,08,09,10,11,13) OR  
 OTHERBC IN (03,04,05,06,07,08,09,10,11,13) THEN  
 BCMETML\_=2;  
 ELSE IF TYPCNTR2 IN (12) THEN BCMETML\_=3;  
 ELSE BCMETML\_=9;  
 END;  
 ELSE IF SEX=1 AND AGE IN (.,7.9) THEN BCMETML\_=9;  
 ELSE BCMETML\_=.;

BCMETFM\_ *Female birth control method categories.* Variable is derived from TYPCNTR2  
 (New variable and OTHERBC.  
 for 2002.)

1 Surgical Respondents who report using sterilization or vasectomy to keep from getting pregnant (TYPCNTR2=1,2 or OTHERBC=1,2)  
 2 Contraception Respondents who report using a method of contraception to keep from getting pregnant (TYPCNTR2=3,4,5,6,7,8,9,10,11,13 or OTHERBC=3,4,5,6,7,8,9,10,11,13)  
 3 Not Active/ No Partner Respondents who report they have no partner or are not sexually active (TYPCNTR2=12)  
 9 Don't Know/ Not Sure/ Refused Non-Pregnant female respondents that report they don't know, are not sure, refused to answer or have missing data for what they are doing now to keep from getting pregnant (TYPCNTR2=77,99,Missing or OTHERBC=77,99,Missing)  
 . Missing Pregnant female respondents, Female respondents aged 45 or older (SEX=2 and AGE >=45) or Male respondents (SEX=1) or respondents that answered no, no partner/not sexually active, same sex partner, don't know/not sure or refused to whether they were doing anything to keep from getting pregnant (BRTHCNT2=2,3,4,7,9,Missing)

**SAS code:**  
 IF SEX=2 AND (18 <= AGE <= 44) THEN DO;  
 IF TYPCNTR2 IN (01,02) OR OTHERBC IN (01,02) THEN  
 BCMETFM\_=1;  
 ELSE IF TYPCNTR2 IN (03,04,05,06,07,08,09,10,11,13) OR  
 OTHERBC IN (03,04,05,06,07,08,09,10,11,13) THEN  
 BCMETFM\_=2;  
 ELSE IF TYPCNTR2 IN (12) THEN BCMETFM\_=3;  
 ELSE IF TYPCNTR2=. AND OTHERBC=. THEN BCMETFM\_=.;  
 ELSE BCMETFM\_=9;  
 END;  
 ELSE IF SEX=2 AND AGE IN (.,7.9) THEN BCMETFM\_=9;  
 ELSE BCMETFM\_=.;

Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)

**\_FCNTRAC** *Use of contraceptives to prevent unintended pregnancy risk factor. Variable derived from SEX, AGE, PREGNANT, BRTHCNT2, BRCNTRL\_ and BCMETFM\_.* (New variable for 2002.)  
 (Meets Healthy People 2010 objective 9-3: Increase the proportion of females At Risk of unintended pregnancy [& their partners] who use contraception.)

1	Not At Risk	Female respondents, aged 18-44 that use contraception
2	At Risk	Female respondents, aged 18-44 that do not use contraception (BRTHCNT2=2 and BRCNTRL_=2)
9	Don't Know/ Not Sure/ Refused	Female respondents, aged 18-44 that don't know, are not sure, refused to answer or have missing values for if they use contraception (BRTHCNT2=.,7,9) or females with unknown or refused age values (Age=7,9,Missing)
.	Missing	Female respondents aged 45 or older or pregnant or those reporting having no partner, not being sexually active or having a same sex partner, (BRTHCNT2=3,4,Missing) or those that intend to get pregnant (BRCNTRL_=3) or male respondents (SEX=1)

**SAS code:**

```

IF (SEX=2) AND (18 <= AGE <= 44) AND (PREGNANT^=1) THEN
DO;
IF BRTHCNT2=2 AND BRCNTRL_=2 THEN _FCNTRAC=2;
ELSE IF BRTHCNT2=1 AND BCMETFM_ IN (1,2) THEN _FCNTRAC=1;
ELSE IF BRTHCNT2 IN (7,9) THEN _FCNTRAC=9;
ELSE IF BRCNTRL_=9 THEN _FCNTRAC=9;
ELSE IF BCMETFM_=9 THEN _FCNTRAC=9;
ELSE _FCNTRAC=.;
END;
ELSE IF AGE IN (.,7,9) THEN _FCNTRAC=9;
ELSE IF SEX IN (7,9) THEN _FCNTRAC=9;
ELSE IF PREGNANT IN (7,9) THEN _FCNTRAC=9;
ELSE _FCNTRAC=.;
    
```

**\_MCNTRAC** *Use of contraceptives to prevent unintended pregnancy risk factor. Variable derived from SEX, AGE, BRTHCNT2, BRCNTRL\_, and BCMETML\_.* (New variable for 2002.)  
 (Meets Healthy People 2010 objective 9-3: Increase the proportion of females At Risk of unintended pregnancy [& their partners] who use contraception.)

1	Not At Risk	Male respondents aged 18-59 that use contraception (BRTHCNT2=1 and BCMETML_=1,2)
2	At Risk	Male respondents aged 18-59 that do not use contraception (BRTHCNT2=2 and BRCNTRL_=2)
9	Don't Know/ Not Sure/ Refused	Male respondents aged 18-59 that don't know, are not sure or refuse to answer or have missing values for if they use contraception (BRTHCNT2=7,9,Missing or Age=7,9)
.	Missing	Female respondents, male respondents aged 60+, or with no partner, not sexually active, have same-sex partner, intend pregnancy, or sterilized

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

**SAS code:**

```

IF (SEX=1) AND (18 <= AGE <= 59) THEN DO;
IF BRTHCNT2=2 AND BRCNTRL_=2 THEN _MCNTRAC=2;
ELSE IF BRTHCNT2=1 AND BCMETML_ IN (1,2) THEN _MCNTRAC=1;
ELSE IF BRTHCNT2 IN (7,9) THEN _MCNTRAC=9;
ELSE IF BRCNTRL_=9 THEN _MCNTRAC=9;
ELSE IF BCMETML_=9 THEN _MCNTRAC=9;
ELSE _MCNTRAC=.;
END;
ELSE IF AGE IN (.,7,9) THEN _MCNTRAC=9;
ELSE IF SEX IN (7,9) THEN _MCNTRAC=9;
ELSE _MCNTRAC=.;

```

**Section 14: Women's Health**

**\_RFMAM2Y** *Women aged 40 and older that have not had a mammogram within the past two years.* Variable derived from SEX, AGE, HADMAM, and HOWLONG.  
(New variable for 2002.)

- |   |                                     |                                                                                                                                                                                                                                                 |
|---|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Not At Risk                         | Female respondents aged 40 and older that have received a mammogram within the past two years (HADMAM=1 and HOWLONG=1,2)                                                                                                                        |
| 2 | At Risk                             | Female respondents aged 40 and older that have not received a mammogram within the past two years (HADMAM=2 or HADMAM=1 and HOWLONG=3,4,5)                                                                                                      |
| 9 | Don't Know/<br>Not Sure/<br>Refused | Female respondents aged 40 and older with don't know, not sure, or refused responses for HADMAM or HOWLONG or female respondents with don't know, not sure, refused or missing responses for AGE (HADMAM=7,9 or HOWLONG=7,9 or AGE=7,9,Missing) |
| . | Missing                             | Female respondents aged 40 and older with missing responses for HADMAM or HOWLONG, female respondents less than 40 years old, or male respondents                                                                                               |

**SAS code:**

```

IF SEX=2 AND AGE GE 40 THEN DO;
IF HADMAM=1 THEN DO;
IF HOWLONG IN (1,2) THEN _RFMAM2Y=1;
ELSE IF HOWLONG IN (3,4,5) THEN _RFMAM2Y=2;
ELSE IF HOWLONG IN (7,9) THEN _RFMAM2Y=9;
END;
ELSE IF HADMAM=2 THEN _RFMAM2Y=2;
ELSE IF HADMAM IN (7,9) THEN _RFMAM2Y=9;
ELSE IF HADMAM=. THEN _RFMAM2Y=.;
END;
ELSE IF SEX=2 AND AGE IN (.,7,9) THEN _RFMAM2Y=9;
ELSE _RFMAM2Y=.;

```

**\_RFPAP3Y** *Female respondents aged 18 and older, with intact cervix, that have not had a pap smear within the past three years.* This variable is derived from the variables SEX, AGE, HADHYST2, NOBCUSE, PREGNANT, HADPAP, and LASTPAP.  
(New variable for 2002.)

- |   |             |                                                                                                                                                                                                                      |
|---|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Not At Risk | Female respondents aged 18 and older, with intact cervix, that have received a pap smear within the past three years (SEX=2 and AGE GE 18 and HADHYST2≠1 or PREGNANT=1 or NOBCUSE≠11 and HADPAP=1 and LASTPAP=1,2,3) |
|---|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

2	At Risk	Female respondents aged 18 and older, with intact cervix, that have not received a pap smear within the past three years (SEX=2 and AGE GE 18 and HADHYST2≠1 or PREGNANT=1 or NOBCUSE≠11 and HADPAP=2 or HADPAP=1 and LASTPAP=4,5)
9	Don't Know/ Not Sure/ Refused	Female respondents aged 18 and older, with intact cervix, with don't know, not sure or refused responses for HADPAP or LASTPAP or females with don't know, not sure, refused or missing responses to AGE (SEX=2 and AGE GE 18 and HADHYST2≠1 or PREGNANT=1 or NOBCUSE≠11 and HADPAP=7,9 or LASTPAP=7,9 or AGE=7,9,Missing)
.	Missing	Female respondents aged 18 and older with missing responses for HADPAP or LASTPAP, or with yes, responses for having had a hysterectomy (HADHYST2=1 or NOBCUSE=11), or male respondents.

**SAS code:**

```

IF SEX=2 AND (HADHYST2=1 OR NOBCUSE=11) AND PREGNANT NE 1
    THEN DO;
    _RFPAP3Y=. ;
END;
ELSE DO;
IF SEX=2 AND AGE >= 18 THEN DO;
IF HADPAP=1 THEN DO;
IF 1 LE LASTPAP LE 3 THEN _RFPAP3Y=1;
ELSE IF 4 LE LASTPAP LT 7 THEN _RFPAP3Y=2;
ELSE IF LASTPAP IN (7,9) THEN _RFPAP3Y=9;
ELSE IF LASTPAP=. THEN _RFPAP3Y=. ;
END;
ELSE IF HADPAP=2 THEN _RFPAP3Y=2;
ELSE IF HADPAP IN (7,9) THEN _RFPAP3Y=9;
ELSE IF HADPAP=. THEN _RFPAP3Y=. ;
END;
ELSE IF SEX=2 AND AGE IN (.,7,9) THEN _RFPAP3Y=9;
ELSE _RFPAP3Y=. ;
END;

```

**Section 15: Prostate Cancer Screening**

\_RFPSA2Y     *Men aged 40 and older that have not had a PSA test within the past two years.*  
*(New variable for 2002.)*     Variable is derived from SEX, AGE, PSATEST, and PSATIME.

1	Not At Risk	Male respondents aged 40 and older that have had a PSA test within the past two years (PSATEST=1 and PSATIME=1 or 2)
2	At Risk	Male respondents aged 40 and older that have not received a PSA test within the past two years (PSATEST=2 or PSATEST=1 and PSATIME=3 or 4 or 5)
9	Don't Know/ Not Sure/ Refused	Male respondents aged 40 and older with don't know, not sure or refused responses for PSATEST or PSATIME or male respondents with don't know, not sure, refused or missing responses to AGE (PSATEST=7,9 or PSATIME=7,9 or AGE=7,9,Missing)

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

Missing Male respondents aged 40 and older with missing responses for PSATEST or PSATIME, Male respondents aged less than 40, or female respondents

**SAS code:**

```
IF (SEX=1) AND (AGE GE 40) THEN DO;
IF PSATEST=1 THEN DO;
IF PSATIME IN (1,2) THEN _RFPSA2Y=1;
ELSE IF PSATIME IN (3,4,5) THEN _RFPSA2Y=2;
ELSE IF PSATIME IN (7,9) THEN _RFPSA2Y=9;
ELSE IF PSATIME=. THEN _RFPSA2Y=. ;
END;
ELSE IF PSATEST=2 THEN _RFPSA2Y=2;
ELSE IF PSATEST IN (7,9) THEN _RFPSA2Y=9;
ELSE IF PSATEST=. THEN _RFPSA2Y=. ;
END;
ELSE IF (SEX=1) AND AGE IN (.,7,9) THEN _RFPSA2Y=9;
ELSE _RFPSA2Y=. ;
```

**Section 16: Colorectal Cancer Screening**

**\_RFBLDST** *Respondents aged 50 and older that have not had a blood stool test within the (New variable past two years. Variable is derived from AGE, BLDSTOOL, and LSTBLDS2. for 2002.)* (Meets Healthy People 2010 objective 3-12A: Increase the proportion of adults who receive a colorectal cancer screening examination.)

- 1 Not At Risk Respondents aged 50 and older that have had a blood stool test within the past two years (BLDSTOOL=1 and LSTBLDS2=1 or 2)
- 2 At Risk Respondents aged 50 and older that have not received a blood stool test within the past two years (BLDSTOOL=2 or BLDSTOOL=1 and LSTBLDS2=3 or 4)
- 9 Don't Know/  
Not Sure/  
Refused Respondents aged 50 and older with don't know, not sure or refused responses to BLDSTOOL or LSTBLDS2 (BLDSTOOL=7,9 or LSTBLDS2=7,9) or with don't know, not sure, refused or missing responses for AGE (AGE=7,9,Missing)
- Missing Respondents aged 50 and older with missing responses for BLDSTOOL or LSTBLDS2, or respondents aged less than 50

**SAS code:**

```
IF AGE >= 50 THEN DO;
IF BLDSTOOL=1 THEN DO;
IF LSTBLDS2 IN (1,2) THEN _RFBLDST=1;
ELSE IF LSTBLDS2 IN (3,4) THEN _RFBLDST=2;
ELSE IF LSTBLDS2 IN (7,9) THEN _RFBLDST=9;
ELSE IF LSTBLDS2=. THEN _RFBLDST=. ;
END;
ELSE IF BLDSTOOL=2 THEN _RFBLDST=2;
ELSE IF BLDSTOOL IN (7,9) THEN _RFBLDST=9;
ELSE IF BLDSTOOL=. THEN _RFBLDST=. ;
END;
ELSE IF AGE IN (.,7,9) THEN _RFBLDST=9;
ELSE _RFBLDST=. ;
```

**\_RFSIGMD** *Respondents aged 50 and older that have never had a sigmoidoscopy or (New variable colonoscopy. Variable is derived from AGE and HADSIGM2. for 2002.)* (Meets Healthy People 2010 objective 3-12B: Increase the proportion of adults who receive a colorectal cancer screening examination.)

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

1	Not At Risk	Respondents aged 50 and older that have had a sigmoidoscopy or colonoscopy (HADSIGM2=1)
2	At Risk	Respondents aged 50 and older that have never had a sigmoidoscopy or colonoscopy (HADSIGM2=2)
9	Don't Know/ Not Sure/ Refused	Respondents aged 50 and older with don't know, not sure or refused responses to HADSIGM (HADSIGM2=7,9) or with don't know, not sure, refused or missing responses to AGE (AGE=7,9,Missing)
.	Missing	Respondents aged 50 and older with missing responses for HADSIGM2, or respondents aged less than 50

**SAS code:**

```
IF AGE >= 50 THEN DO;
  IF HADSIGM2=1 THEN _RFSIGMD=1;
  ELSE IF HADSIGM2=2 THEN _RFSIGMD=2;
  ELSE IF HADSIGM2 IN (7,9) THEN _RFSIGMD=9;
  ELSE IF HADSIGM2=. THEN _RFSIGMD=.;
END;
ELSE IF AGE IN (.,7,9) THEN _RFSIGMD=9;
ELSE _RFSIGMD=.;
```

**Section 17: HIV/AIDS**

\_AIDTST      *Respondents less than 65 years old that have ever been tested for HIV risk factor.*  
*(New variable for 2002.)*      This variable is derived from the variables AGE and HIVTST3.

1	Not At Risk	Respondents aged 18-64 that have been tested for HIV (HIVTST3=1)
2	At Risk	Respondents aged 18-64 that have not been tested for HIV (HIVTST3=2)
9	Don't Know/ Not Sure/ Refused	Respondents aged 18-64 with don't know, not sure or refused responses to HIVTST3 (HIVTST3=7,9) or respondents with don't know, not sure, refused responses for AGE (AGE=7,9,Missing)
.	Missing	Respondents with missing values for HIVTST3 (HIVTST3=Missing) or respondents older than 64 (AGE > 64) or with missing responses for AGE (AGE=Missing)

**SAS code:**

```
IF 18 <= AGE <= 64 THEN DO;
  IF HIVTST3=1 THEN _AIDTST=1;
  ELSE IF HIVTST3=2 THEN _AIDTST=2;
  ELSE IF HIVTST3 IN (7,9) THEN _AIDTST=9;
  ELSE IF HIVTST3=. THEN _AIDTST=.;
END;
ELSE IF AGE IN (.,7,9) THEN _AIDTST=9;
ELSE _AIDTST=.;
```

\_HIGHRSK      *Respondents less than 65 years old that have ever participated in high-risk behavior risk factor.* Variable is derived from AGE and HIVRISK2.  
*(New variable for 2002.)*

1	Not At Risk	Respondents aged 18-64 that have not participated in high-risk behavior (HIVRISK2=2)
2	At Risk	Respondents aged 18-64 that have participated in high-risk behavior (HIVRISK2=1)

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

9 Don't Know/  
Not Sure/  
Refused  
. Missing

Respondents aged 18-64 with don't know, not sure or refused responses to HIVRISK2 (HIVRISK2=7,9) or those with don't know, not sure, refused responses to AGE (AGE=7,9,Missing)  
Respondents with missing responses for HIVRISK2 (HIVRISK2=Missing) or respondents older than 64 (AGE > 64) or with missing responses for AGE (AGE=Missing)

**SAS code:**

```
IF 18 <= AGE <= 64 THEN DO;
  IF HIVRISK2=2 THEN _HIGHRSK=1;
  ELSE IF HIVRISK2=1 THEN _HIGHRSK=2;
  ELSE IF HIVRISK2 IN (7,9) THEN _HIGHRSK=9;
  ELSE IF HIVRISK2=. THEN _HIGHRSK=. ;
END;
ELSE IF AGE IN (.,7,9) THEN _HIGHRSK=9;
ELSE _HIGHRSK=. ;
```

**\_STDCNDM** *Risk factor for respondents less than 65 years old that have ever been counseled (New variable for 2002.)* by a doctor, nurse, or other health professional within the past 12 months on prevention of sexually transmitted diseases through condom use. Variable is derived from AGE and PCSAIDS.

1 Not At Risk Respondents aged 18-64 that have talked to health professional within the past 12 months on prevention of sexually transmitted diseases and condom use (PCSAIDS=1)

2 At Risk Respondents aged 18-64 that have not talked to health professional within the past 12 months on prevention of sexually transmitted diseases and condom use (PCSAIDS=2)

9 Don't Know/  
Not Sure/  
Refused  
. Missing

Respondents aged 18-64 that did not know, were not sure, or refused to answer PCSAIDS (PCSAIDS=7,9) or respondents with don't know, not sure, refused responses for AGE (AGE=7,9)  
Respondents with missing values for PCSAIDS (PCSAIDS =.) or respondents older than 64 (AGE > 64) or with missing responses for AGE (AGE=Missing)

**SAS code:**

```
IF 18 <= AGE <= 64 THEN DO;
  IF PCSAIDS2=1 THEN _STDCNDM=1;
  ELSE IF PCSAIDS2=2 THEN _STDCNDM=2;
  ELSE IF PCSAIDS2 IN (7,9) THEN _STDCNDM=9;
  ELSE IF PCSAIDS2=. THEN _STDCNDM=. ;
END;
ELSE IF AGE IN (.,7,9) THEN _STDCNDM=9;
ELSE _STDCNDM=. ;
```

**Section 18: Firearms**

**\_RFFRARM** *Risk factor for living in home with loaded firearm. Variable is derived from (New variable for 2002.)* FIREARM4 and GUNLOAD.  
(Meets Healthy People 2010 objective 15-4: Reduce the proportion of persons living in homes with firearms that are loaded and unlocked.)

1 Not At Risk Living in home with no guns or unloaded firearm (FIREARM4=1 and GUNLOAD=2 or FIREARM4=2)

2 At Risk Living in home with loaded firearm (FIREARM4=1 and GUNLOAD=1)

**Calculated Variables on the 2003 Behavioral Risk Factor Surveillance System Data File (continued)**

9 Don't Know/ Not Sure/ Refused Respondents that did not know, were not sure, or refused to answer if they had a firearm in the house (FIREARM4=7,9) or did not know, were not sure, or refused to answer if any of them were loaded (GUNLOAD=7,9)

. Missing Respondents with missing values for FIREARM4 (FIREARM4=.) or answered yes to having a firearm and with missing values for GUNLOAD (FIREARM4=1 and GUNLOAD =Missing)

**SAS code:**

```
IF FIREARM4=1 THEN DO;
  IF GUNLOAD=2 THEN _RFFRARM=1;
  ELSE IF GUNLOAD=1 THEN _RFFRARM=2;
  ELSE IF GUNLOAD IN (7,9) THEN _RFFRARM=9;
  ELSE IF GUNLOAD=. THEN _RFFRARM=. ;
END;
ELSE IF FIREARM4=2 THEN _RFFRARM=1;
ELSE IF FIREARM4 IN (7,9) THEN _RFFRARM=9;
ELSE _RFFRARM=. ;
```

\_RFFRAR2 *Risk factor for living in home with loaded & unlocked firearm.* Variable is derived from FIREARM4, GUNLOAD and LOADULK2. (Meets Healthy People 2010 objective 15-4: Reduce the proportion of persons living in homes with firearms that are loaded and unlocked.)

*(New variable for 2002.)*

1 Not At Risk Living in home with no guns or unloaded firearm or locked firearm (FIREARM4=1 and GUNLOAD=2 or FIREARM4=1 and GUNLOAD=1 and LOADULK2=2 or FIREARM4=2)

2 At Risk Living in home with loaded and unlocked firearm (FIREARM4=1 and GUNLOAD=1 and LOADULK2=1)

9 Don't Know/ Not Sure/ Refused Respondents that did not know, were not sure, or refused to answer if they had a firearm in the house (FIREARM4=7,9) or had a loaded firearm in the house (GUNLOAD=7,9) or if any of them were unlocked (LOADULK2=7,9)

. Missing Respondents with missing values for FIREARM4 (FIREARM4=Missing) or answered yes to having a firearm and with missing values for GUNLOAD (FIREARM4=1 and GUNLOAD =Missing) or answered yes to having a firearm and yes that one was loaded and missing whether it was unlocked (FIREARM4=1 and GUNLOAD =1 and LOADULK2=Missing)

**SAS code:**

```
IF FIREARM4=1 THEN DO;
  IF GUNLOAD=2 THEN _RFFRAR2=1;
  ELSE IF GUNLOAD=1 AND LOADULK2=1 THEN _RFFRAR2=2;
  ELSE IF GUNLOAD=1 AND LOADULK2=2 THEN _RFFRAR2=1;
  ELSE IF GUNLOAD IN (7,9) THEN _RFFRAR2=9;
  ELSE IF GUNLOAD=1 AND LOADULK2 IN (7,9) THEN _RFFRAR2=9;
  ELSE _RFFRAR2=. ;
END;
ELSE IF FIREARM4=2 THEN _RFFRAR2=1;
ELSE IF FIREARM4 IN (7,9) THEN _RFFRAR2=9;
ELSE _RFFRAR2=. ;
```