



Constructed Variables CHIS 2003 Adolescent Survey

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RACE/ETHNICITY

RACECN_P

Race – Census 2000 Definition (PUF Recode)

The RACECN_P variable uses the Census SF1 definition/tabulation of race. RACECN_P is derived from the imputed Westat self-reported variables: SRPI, SRAI, SRAS, SRAA, SRW, and SRO. Adolescents are either assigned to one of several single-race categories or a multiple-race category.

1. The number of races reported for each case is counted using the race variables SRPI, SRAI, SRAS, SRAA, SRW, and SRO.
2. The cases with a single race reported are assigned to the corresponding RACECN_P values 1 through 5. Other single race and Pacific Islanders are combined to create one category, RACECN_P=5.
3. The cases with more than one race reported are assigned to the multiple-race category RACECN_P=6.

RACECN_A

Race of Adult Respondent – Census 2000 Definition

The constructed RACECN_A variable is based on the same logic and criteria as RACECN_P. This variable assigns race for the adult respondent of the adolescent based on the Census 2000 definition.

RACEDO_P

Race – Department of Finance Definition (PUF Recode)

The RACEDO_P variable uses the California Department of Finance's race categories. This variable is derived from the imputed Westat self-reported variables: SRH, SRPI, SRAI, SRAS, SRAA, SRW and SRO. Latino is considered to be a race category for this variable and is given priority.

RACEDO_P values are assigned a hierarchical manner:

1. The number of races reported for each case is counted using the race variables SRPI, SRAI, SRAS, SRAA, SRW, and SRO.
2. All cases that are reported to be Latino (SRH=1) are assigned to the Latino category, RACEDO_P=1.
3. The remaining cases, with a single race reported, are assigned to one of several Non-Latino categories. Other Non-Latino race and Non-Latino Pacific Islander are collapsed to create one category, RACEDO_P=6.
4. The remaining cases with more than one race reported are assigned to the Non-Latino multiple-race category, RACEDO_P=7.

Note: The constructed Non-Latino single race category (RACEDO_P=6) is not included in the original population projection by the Department of Finance (DOF). Corrections for this category assignment will be made in the construction of future CHIS RACEDO_P variables.

RACEDO_A

Race of Adult Respondent – Department of Finance Definition

The constructed RACEDO_A variable is based on the same logic and criteria as RACEDO_P. This variable assigns race for the adult respondent of the adolescent based on the Department of Finance definition.

RACEHP_P

Race – Center for Health Policy Research (PUF Recode)

The RACEHP_P variable is a recoded version of the RACEHPR variable. The purpose of the RACEHP_P variable is to create a measure of race that takes into account which race/ethnicity the adolescents most identify with if more than one race is reported. For the cases with multiple races reported, and no indication of which group the adolescent most identifies with, a few other rules are used. RACEHPR is derived from the race variables **SRH, SRPI, SRAI, SRAS, SRAA, SRW, SRO**, and questionnaire items TI2OS and TI2E. Latino is also considered to be a separate race category for this variable.

RACEHP_P values are assigned in the following hierarchical manner:

1. First, a count is made of the number of races reported for each case using the race variables SRPI, SRAI, SRAS, SRAA, SRW, and SRO.
2. Second, the Non-Latino adolescents (SRH=2) are assigned RACEHP_P values. With the exception of Pacific Islander, the Non-Latino cases (SRH=2) with only one race reported are assigned to the appropriate single-race category.

Depending on which group the adolescent respondent most identifies with in questionnaire item TI2E, the Non-Latino cases (SRH=2) with more than one race are assigned to RACEHP_P=6 category, as are the Pacific Islanders and those of other single races.

3. Next, the Latino cases (SRH=1) are assigned the appropriate values depending on a number of criteria.
 - a. The Latino adolescents (SHR=1) who are statistically imputed to be Latino (ISRH \geq 1), and whose race (**SRPI, SRAI, SRAS, SRAA, SRW, and SRO**) is not imputed, are coded to the appropriate single-race category if only a single race is reported.
 - b. The adolescents who are statistically imputed to be Latino (ISRH \geq 1), and whose race (**SRPI, SRAI, SRAS, SRAA, SRW, and SRO**) is not imputed, with multiple races reported, are assigned the multiple-race category.
 - c. The Latino cases (SRH=1) that are not statistically imputed to be Latino (ISRH $<$ 1), but whose race (**SRPI, SRAI, SRAS, SRAA, SRW, and SRO**) is imputed, are considered to be Latino, RACEHP_P=1.
 - d. The Latino adolescents (SRH=1) who are not statistically imputed to be Latino (ISRH $<$ 1), and whose race (**SRPI, SRAI, SRAS, SRAA, SRW, and SRO**) is not imputed, with multiple races reported, are coded to the appropriate RACEHP_P category depending on the response value in item TI2E (what group they most identify with).

Adjustment 1: All Latino adolescents (SRH=1) with a single race reported to be “other” (if only SRO=1), and for whom the race/ethnicity specified in item TI2OS is an identified nationality or skin color, are assigned to the Latino category. Examples of these “other” or open-specify responses include Mexican, Chicano, Hispanic, Salvadoran, Moreno and Cuban.

Adjustment 2: The Latino adolescents (SRH=1) with “none of these” specified (in TI2OS), and for whom the race/ethnicity the adolescent most identifies with in item TI2E is unknown, are coded as Latino (RACEHPR=1).

Adjustment 3: The Latino adolescents (SRH=1) with multiple races, for whom the SRH variable and race are both imputed, are assigned to the PI/other single/multiple race category for this variable (RACEHP_P=6).

Adjustment 4: The adolescents with RACEHP_P ~= 2 who meet one of the following criteria are coded as American Indian / Alaska Native (RACEHP_P=2):

1. Identify themselves as an enrolled member in an AIAN tribe (TI2B=1) or
2. Single race, Non-Latino (SRH ~= 1), and American Indian/Alaska Native (SRAI=1) or
3. Single race, American Indian/Alaska Native (SRAI= 1), Latino (SRH=1), and most identify with American Indian/Alaska Native (TI2E=18) or
4. Multiple race, American Indian/Alaska Native (SRAI=1), and most identify with American Indian/Alaska Native (TI2E=18).

RACEHP_A

Race of Adult Respondent – UCLA CHPR Definition

The constructed RACEHP_A variable is based on the same logic and criteria as RACEHP_P. This variable assigns race for the adult respondent of the adolescent based on the UCLA Center for Health Policy Research definition.

ASIAN9

Asian Subtypes-9 (PUF Recode)

The ASIAN9 variable is derived from constructed variable ASIAN10. The purpose of this variable is to provide a re-categorization representing the specific Asian subgroups for those who report that they are Asian (SRAS=1).

1. The number of Asian ethnic groups reported for each case is counted.
2. Adolescents who report only one Asian ethnic group are assigned corresponding ASIAN9 values (1 through 7). Cambodian ethnic group and other Asian ethnic group are assigned the value of ASIAN9=8.
3. Adolescents who report more than one Asian ethnic group are assigned the value ASIAN9=9.

Adolescents who only report one Asian ethnic group, and are not yet assigned an ASIAN9 value, are given a not ascertained value, ASIAN9=(-9).

Adolescents that are identified as not belonging to an ASIAN ethnic or race group (SRAS=2) are assigned the skip value of ASIAN9=(-1).

ASNHPR_P

Asian Group – UCLA CHPR Definition (PUF Recode)

The ASNHPR_P variable identifying Asian ethnicity is a recoded definition for the public use file provided by the Center for Health Policy Research at UCLA which assigns Asian ethnicity based on which group the adolescent identifies with the most, if more than one Asian sub-group is reported. It collapses adolescent reports of Cambodian ethnicity, other Asian ethnic group and those reporting belonging to more than one Asian ethnic group.

- A. The number of Asian ethnic groups reported for each case is counted.**
- B. Adolescents who report belonging to a specific single Asian ethnic group are assigned to corresponding values for the ASNHPR_P variable. Adolescents who report Cambodian ethnicity, other single Asian ethnicity or belonging to two or more Asian ethnic groups are assigned the value ASNHPR_P=7.**

Adolescents who are not of Asian race/ethnicity are assigned a value of ASNHPR_P=(-1).

LATIN9TP **Latino/Hispanic Subtypes – 9**

The purpose of this variable is to provide a 14-level measurement of what group(s) adolescents identify with of those who report that they are of Latino/Hispanic origin (SRH=1). This variable is derived from items SRH, T11A_1 through T11A_21 and T11AOS.

- A. First, the numbers of Latino/Hispanic ancestries reported for each case are counted using items T11A_1 through T11A_21.**
- B. The cases with respondents who report only one Latino/Hispanic ancestry are assigned values for the temporary variable LATINTEMP.**
- C. The cases with more than one ancestry reported are also assigned LATINTEMP values.**
- D. The respondents who report that they are not of Latino or Hispanic origin (SRH=2) are assigned a skip value (-1) for this variable.**
- E. Finally, all of the cases are assigned values for the LATIN9TP variable using the categories generated with LATINTEMP.**

Each case is tested through the following conditions until a LATIN9TP is assigned:

Condition:	LATIN9TP Value:	LATIN9TP Label:
If LATINTEMP=1 (Mexican)	1	Mexican
If LATINTEMP=2 (Salvadoran)	2	Salvadoran
If LATINTEMP=3 (Guatemalan)	3	Guatemalan
If LATINTEMP=4 (Central American)	4	Central American
If LATINTEMP=5 (Puerto Rican)	5	Puerto Rican
If LATINTEMP=7 (Latino European)	6	Latino European
If LATINTEMP=8 (South American)	7	South American
If LATINTEMP=6 (Cuban) If LATINTEMP=9 (Caribbean)	8	Other Latino
If LATINTEMP=10	9	Two or more Latino types
If LATINTEMP=-1	-1	Non-Latino

- F. If LATIN9TP cannot be determined, and T11A is missing, country of birth is used (T13) to assign Latino ethnic group in LATIN9TP.**

CATRIBE **California Tribal Heritage**

The California Tribal Heritage variable indicates whether or not the adolescents who report themselves as being American Indian/Alaska Native (SRAI=1) identify themselves with a California or a Non-California tribal heritage. This variable is constructed using questionnaire items T12A_1 – T12A_11, T12AOS, and T12COS.

Since the questionnaire response categories in T12A include only non-California tribes, it was important to construct CATRIBE in order to capture verbatim responses in T12AOS or T12COS that may indicate California tribal heritage among the population of American Indians responding to the questionnaire.

Therefore, any American Indian/Alaska Native respondents (SRAI=1) who report a California Tribe in T12AOS or T12COS are considered to have California Tribal Heritage (CATRIBE=1). All remaining adolescents who identify themselves with at least one of the Non-California tribes in T12A_1-11, or indicate a non-California tribe as a verbatim answer in T12AOS, are considered to be of Non-California Tribal Heritage. Any others are assigned a not ascertained value (-9) for this variable.

Note: This variable indicates reported tribal heritage. The cases included in this variable all reported themselves as AIAN (SRAI=1), but may or may not be enrolled members of a federal or state-recognized tribe (please see the T12C variable for this information).

CNTRYS **Country Born In**

CNTRYS is constructed with questionnaire items T13 and T13OS.

CNTRYS is constructed by reassigning the verbatim responses in T13OS into T13, and creating more general categories referring to country of birth.

Note: See Appendix A for a description of the recodes of country of birth based on open-ended response in T13OS.

LANGUAGE VARIABLES

LANGHOME **Types of Languages Spoken at Home**

The LANGHOME variable indicates the languages spoken in the homes of the respondents. This variable is derived from questionnaire items T17_1 through T17_22. The variable takes into account households in which multiple languages are spoken. The LANGHOME variable is created with the categories generated with the LANGTEMP construct variable.

1. First, values are assigned to a LANGTEMP variable based on criteria from questionnaire items T17_1 through T17_22.
2. For cases where respondents speak two or more languages, values for LANGTEMP were assigned according to specific criteria.
3. Next, each case is tested through the following steps until a LANGHOME value can be assigned:

Condition:	LANGHOME Value:	LANGHOME Label:
If LANGTEMP=1	1	English
If LANGTEMP=2	2	Spanish
If LANGTEMP=3	3	Chinese
If LANGTEMP=4	4	Vietnamese
If LANGTEMP=6	5	Korean
If LANGTEMP= Tagalog (5) Asian Indian Languages (7) Japanese (9)	6	Other One Asian Language

Other Asian language (10)		
If LANGTEMP= Russian (8) European (11) Farsi (12) Armenian (13) Arabic (14) African/Afro-Asiatic (15) Other language (16)	7	Other one language only
If LANGTEMP=17	8	English and Spanish
If LANGTEMP=18	9	English and Chinese
If LANGTEMP=19	10	English and a European language
If LANGTEMP=20	11	English and another Asian language
If LANGTEMP=21	12	English and one other language
If LANGTEMP=22	13	Other two or more languages
If LANGTEMP=-9	-9	Not ascertained

INTVLANG

Language of Interview

The INTVLANG variable indicates the language spoken during the interview by the interviewer and the adolescent respondent.

Each case is reassigned to an INTVLANG value based on the following criteria:

Condition:	INTVLANG Value:	INTVLANG Label:
If ENGLSPAN=1	1	English
If ENGLSPAN=2	2	Spanish
If ENGLSPAN=3	3	Vietnamese
If ENGLSPAN=4	4	Korean
If ENGLSPAN=5	5	Cantonese
If ENGLSPAN=6	6	Mandarin

HEALTH CONDITIONS

ASTYR

Asthma Symptoms Past 12 Months

This variable is derived from questionnaire items TB5, TB17, and TB18. Those adolescents who have been told that they have asthma (TB5=1), still have asthma (TB17=1) and have had an asthma episode in the past 12 months (TB18=1) were considered to have asthma symptoms in the past 12 months (ASTYR=1). Those who do not still have asthma (TB17=2) or have not had an attack of asthma in the past 12 months (TB18=2) were considered not to have asthma symptoms in the past 12 months (ASTYR=2). Those who were never told they had asthma (TB5=2) were assigned a value of (-1).

BMI_P

Body Mass Index for Adolescents (PUF Recode)

The BMI_P variable is continuous and is a recoded version of BMI. The body mass index (BMI_P) variable is constructed in order to provide an indication of whether adolescents may be underweight or overweight.

According to the Centers for Disease Control (CDC), a calculation of BMI is calculated for both adults and for children who are at least 2 years of age and able to stand up and have their height measured. Although the CDC definition considers children to be those 2-20 years, in order to remain consistent with the definition of adolescent for CHIS, BMI_P values are determined for all adolescents who complete the adolescent survey (12 – 17 years old).

When both height and weight are known for the adolescent, BMI_P is calculated using the following formula:

$$\text{Body Mass Index} = \text{Weight in kilograms} / [\text{Height in meters}]^2$$

BMI_P is calculated with the PUF variables that represent weight (top coded) and height (bottom coded). If no top or bottom code is assigned for PUF weight or height, then BMI=BMI_P. Height and weight values reported in English units are first converted to the metric system. After the calculation of BMI_P is complete, each value is rounded to the nearest two decimal points and is assigned to the corresponding range of the BMI_P variable (see range levels listed in data dictionary).

BMITN

Age and Gender Specific BMI (Continuous)

This variable is continuous and provides an age and gender specific percentile measure of BMI for adolescents.

RBMI

Age and Gender Specific BMI (4 levels)

The constructed RBMI variable is based on BMITN. This variable provides a categorical measure of age and gender specific percentiles of BMI for adolescents. Adolescents are considered underweight if their BMI for age less is than the 5th percentile (RBMI=1), normal if their BMI for age is between the 5th and 85th percentile (RBMI=2), at risk of being overweight if their BMI for age is between the 85th and 95th percentile (RBMI=3), and Overweight if their BMI for age is equal or greater than the 95th percentile (RBMI=4).

OVRWT

Overweight or Obese

The OVRWT variable is constructed based on RBMI criteria. This variable is dichotomous and determines whether the adolescent respondent is considered to be physically overweight/obese or not. Cases are assigned based on the following criteria:

Condition:	OVRWT Value:	OVRWT Label:
If RBMI=3 or 4	1	Overweight/Obese
If RBMI=1 or 2	2	Not overweight/obese

Cases in which RBMI cannot be determined are assigned an OVRWT value of (-9).

HEALTH BEHAVIORS

TC_INJN

Times Seriously Injured

The TC_INJN variable is derived from questionnaire items TC1 and TC2. TC_INJN categorizes the number of times the respondent was injured enough to obtain advice or treatment from a doctor in the past 12 months (TC2). Adolescents who reported not being seriously injured enough to obtain advice or treatments from a doctor (TC1=2) were considered not have been seriously injured (TC_INJN=0). Those that were injured enough to obtain advice or treatment at least once during the past 12 months were assigned the following TC_INJN values:

Condition:	TC_INJN Value:	TC_INJN Label:
If TC2=1	1	1 time
If TC2=2	2	2 times
If TC2=3	3	3 times
If TC2≥4	4	4 + times

HELMUSE

Wore a Helmet While Riding Bicycle in Past 12 Months

The HELMUSE variable is derived from questionnaire item TC6. Adolescents who report always or usually wearing a helmet while riding a bicycle (TC6=1 or 2) were assigned to the following value (HELMUSE=1). Those who report sometimes or never wearing a helmet (TC6=3 or 4) were assigned the following value (HELMUSE=2). Those who indicated that they do not ride on bikes (TC6=5) were assigned a skip value of HELMUSE=(-1).

SEATBLT

How Often Use Seatbelt When Riding in Car

This variable is derived from questionnaire item T6A. SEATBLT categorizes the frequency of wearing a seatbelt while riding or driving a car. Adolescents who report always or usually wearing a seatbelt while riding in or driving a car (TC6A_1 or 2) were assigned the following value (SEATBLT=1). Those who report sometime or never wearing a seatbelt (TC6_3 or 4) were assigned the following value (SEATBLT=2). Those who indicated do not ride in or drive a car (T6A=5) were assigned a value of SEATBLT=0.

FV5DAY

5+ Fruits/Vegetables a Day

The FV5DAY variable was derived from questionnaire items TE4 and TE6. FV5DAY categorizes the reported number of fruits (TE4) and vegetables (TE6) the adolescent consumes per day. Those indicating eating 5 or more than 5 fruits and vegetables a day were assigned a value of FV5DAY=1. Those indicating eating zero or fewer than 5 were assigned a value of FV5DAY=2.

SMKCUR

Adolescent Current Smoker

The SMKCUR variable was derived from questionnaire items TC38 and TE19. If the adolescent indicated smoking more than 3 cigarettes in the past 30 days (TE19=2, 3, 4, 5, or 6), then the respondent was considered to be a current smoker (SMKCUR=1). If the respondent indicated never smoking (TC38=2) or smoking less than 2 cigarettes in the past 30 days (TE19=0 or 1) then the respondent was considered to be a non-smoker (SMKCUR=2).

INJCA

Cause of Injury

The INJCA variable categorizes the cause of the adolescent’s most recent injury, and was derived from questionnaire item TC3.

Values are assigned as follows:

Condition	INJCA Value:	INJCA Label:
If TC3=1 or 2	1	
If TC3=3	2	
If TC3=4	3	
If TC3=9	4	
IF TC3=5, 6, 7, 8, 91	5	

Adolescent respondents who report not being injured (TC1=1) are assigned a value of INJCA=(-1). All other cases are assigned a not ascertained value of INJCA=(-9).

HHSMK

Household Smoking

The constructed HHSMK variable provides categorical measures of amount of smoking within the adolescent respondent’s household. This variable is derived from questionnaire items AD33 and AD34, which measure the presence of smokers within the household in addition to the number of days there is any smoking within the household.

Values are assigned as follows:

Condition:	HHSMK Value:	HHSMK Label:
If AD33=2	1	None
If AD33=1 and (AD34>=1 and AD34<7)	2	Some days
If AD33=1 and AD34=7	3	Everyday

HHCRWD

Household Crowding

The HHCRWD variable is based on the ratio of total people in a household divided by number rooms in the household. This variable was created using the number of household members and the number rooms in the house (AK24). A household is considered crowded (HHCRWD=1) if there is more than one person per room.

PHYSICAL ACTIVITY

VIGOR

Vigorous Activity 3+ Days Last Week

The VIGOR variable is derived from questionnaire item TE8 and TE8A. The adolescents who did activity for at least 20 minutes that made them sweat or breath hard at least 3 of the past 7 days (TE8A >= 3) are considered to have completed vigorous activity (VIGOR=1). Those with less than 3 days are not considered to have completed

vigorous activity (VIGOR=2). Those who refused (-7) or did not know (-8), or for whom a response was not recorded (-9) for TE8A, are also assigned to the no vigorous activity category.

MODACT **Moderate Activity**

The MODACT variable is derived from questionnaire items TE9A and TE9. The adolescents who did have activity for at least a half-hour (TE9=1) that DID NOT made them sweat or breath hard at least 5 of the past 7 days (TE9A >= 5) are considered to have completed moderate activity (MODACT=1). Those with less than 5 days and who did not do activity for at least a half-hour (TE9=2) are not considered to have completed moderate activity (MODACT=2). Those who refused (-7) or did not know (-8), or a response was not recorded (-9) for TE9A, are also assigned to the no vigorous activity category.

REGACT **Regular Moderate or Vigorous Activity**

The REGACT variable is derived from questionnaire items TE8 and TE9 as well as the constructed variables VIGOR and MODACT. This variable categorizes physical activity into 3 levels. Adolescents who are considered to have completed vigorous activity (VIGOR=1) or moderate activity (MODACT=1) are considered to engage in regular activity and are assigned the value of REGACT=1. Those who engage in 20 min (TE8=1) to 30 min (TE9=1) of physical activity in the past week are considered to engage in some physical activity and are assigned the value of REGACT=2. For those who have not engaged in either 20 minutes (TE8=2) or 30 minutes (TE9=2) of physical activity in the past week are considered sedentary (REGACT=3). Those cases in which a response was not recorded were assigned a value of REGACT=(-9).

TESTRNG **Strengthening Activity**

The TESTRNG variable is derived from questionnaire items TE10A and TE10. The adolescents who did strengthening activity (TE10=1) at least 3 of the last 7 days (TE10A >= 3) are considered to have completed strengthening activity (TESTRNG=1). Those with fewer than 3 days and who did not do strengthening activity (TE10=2) are not considered to have completed strengthening activity (TESTRNG=2). Those who refused (-7) or did not know (-8), or for whom a response was not recorded (-9) for TE9A, are also assigned to the no strengthening activity category (TESTRNG=2).

INTERPERSONAL VIOLENCE

FIGHT **Physical Fights in the Past 12 Months**

The FIGHT variable is derived from questionnaire item TG3, which measures the number of times the adolescent respondent is reported to have gotten into a physical fight with someone in the past 12 months. The FIGHT variable categorizes responses into two levels: those indicating 1 or more fights in the past 12 months (TG3≥1) where assigned a value of FIGHT=1; those indicating 0 fights in the past 12 months were assigned a value of FIGHT=2.

ACCESS AND UTILIZATION

USUAL

Have Usual Place to Go When Sick or Needing Health Advice

The USUAL variable is derived from questionnaire item TF1. The values of USUAL are assigned based on whether an adolescent respondent answers affirmatively to having a usual source of health care. USUAL uses a dichotomous measure to ascertain whether or not an adolescent has a usual place to go to when sick or in need of health advice. Values are assigned as follows:

Condition:	USUAL value:	USUAL label:
If TF1=1, 3, 4 or 5	1	Yes
If TF1=2	2	No

Those who refuse or do not know if they have a usual place to go, or if this data is missing, are assigned not ascertained value of (-9).

USUAL5TP

Usual Source Of Care (5 Levels)

The USUAL5TP variable is derived from questionnaire items TF1, TF2 and TF2OS, which measure the most often-visited place the adolescent respondent goes to for health care. Five levels are assigned to USUAL5TP that categorize the usual source of care for the respondent. Values are assigned according to the following criteria:

Condition:	USUAL5TP Value:	USUAL5TP Label:
If TF1=3 or 4 or TF2=1	1	Doc Office/HMO/Kaiser
If TF2=2	2	Community/Gov. Clinic, Community Hospital
If TF2=3	3	Emergency Room/Urgent Care
If TF2=4, 5, or 94	4	Other place, no one place
If TF2=(-1)	5	No usual source of care

Open text responses provided in TF2OS were reassigned to one USUAL5TP level.

USOC

Usual Source of Care Other Than ER

The USOC variable is derived from the constructed variable, USUAL5TP. USOC provides a dichotomous measure of whether an adolescent has a usual source of care other than emergency room services.

Each case is tested through the following conditions until a USOC value is assigned:

Condition:	USOC value:	USOC label:
If USUAL5TP=1, 2, 4	1	Yes
If USUAL5TP=3, 5	2	No

ACMDNUM

Number of Doctor Visits in the Past Year

The ACMNDUM variable is derived from the continuous TF16 variable, which assigns the number of doctor visits in the past year as reported by the adolescent respondent. The ACMNDUM variable provides 10 categories for the number of visits reported. Those reporting 25 or more number of visits in the past year are assigned a value of ACMNDUM=10.

DOCT_YR

Visited a Doctor During the Past 12 Months

The DOCT_YR variable is derived from the constructed ACMNDUM variable. The DOCT_YR variable is a dichotomous variable that ascertains whether or not the adolescent respondent visited a doctor during the past 12 months. Those that indicated 1 or more number of visits (ACMNDUM=1 to 10) were assigned the value, DOCT_YR=1. Those indicating 0 visits (ACMNDUM=0) were assigned the value, DOCT_YR=2.

Cases in which the number of visits could not be ascertained were assigned a value of DOCT_YR=(-9).

DNVST

Had Dental Visit in the Past 12 Months

The DNVST variable is derived from the questionnaire item TF14, which provides a categorical measure for time since last visit to dentist or dental clinic. DNVST provides a dichotomous measure of whether or not the adolescent respondent visited a dentist in the past 12 months. Those indicating a visit to the dentist one year ago or less (TF14=1, 2) were assigned a value of DNVST=1. Those who have never visited the dentist or have done so more than a year ago (TF14=0, 3 to 5) are assigned a value of DNVST=2.

Cases in which time since the dental visit cannot be ascertained are assigned a value of DNVST=(-9).

INSURANCE VARIABLES

INSMD

Covered by MediCal

The INSMD variable is derived from questionnaire items IA1 and IA5_4. Adolescents who are identified by the respondent as being covered by MediCal (IA1=1 or IA5_4=1) are considered to be covered by MediCal for this variable (INSMD=1). Those who skip out of IA1 (-1), or who are identified as not covered by MediCal (IA1=2) are considered to be not covered (INSMD=2).

The respondents who refuse (-7) or do not know (-8) if the adolescent is covered by MediCal in item, IA1, or if this data is missing (-9), are also assigned these values for INSMD.

Adjustment 1: In addition, the cases with INSMD = 1, where the adolescent is covered by MediCal through premium payment for a health plan (A112_6=1) or through a plan that was missed (IA9_5=1), are also considered to be covered by MediCal (INSMD=1).

INSHF

Covered by Healthy Families

The INSHF variable is derived from questionnaire items IA2 and IA5_5. Adolescents who are identified by the respondent as being covered by Healthy Families (IA2=1 or IA5_5) are considered to be covered by Healthy Families for this variable (INSHF=1). Those who skip out of IA2 (-1), or those respondents who report that the adolescent is not covered by Healthy Families (IA2=2), are also considered to be not covered (INSHF=2).

The respondents who refuse (-7) or do not know (-8) if the adolescent is covered by Healthy Families in item, IA2, or for whom data is missing (-9), are also assigned these values for INSHF.

Adjustment 1: In addition, the cases with INSHF \sim 1, in which the adolescent is covered by Healthy Families through a plan that was missed (IA9_6=1), are also considered to be covered (INSHF=1).

INSEM **Covered by Employer-Based plan**

The INSEM variable is derived from questionnaire items IA3 and IA5_2. Adolescents who are identified by the respondent as being covered by a health insurance plan or HMO through a current or former employer/union (IA3=1 or IA5_2) are considered to be covered by an employer-based plan for this variable (INSEM=1). Those who skip out of IA3 (-1), or report that the adolescent is not covered by an employer-based plan (IA3=2) are considered to be not covered (INSEM=2).

The respondents who refuse (-7) or do not know (-8) if the adolescent is covered by an employer-based plan in item, IA3, or if this data is missing (-9) are also assigned these values for INSEM.

Adjustment 1: In addition, the cases with INSEM \sim 1, where the adolescent is covered through premium payment for a health plan (AI12_2=1 or AI12_3=1) or through an employer-based plan (IA9_1=1) or covered by school or other professional association (IA9_2=1) that was missed are also considered to be covered (INSEM=1).

Note: This variable cannot be used as a count of adolescents covered by an employer-based plan. Only respondents for adolescents without MediCal and Healthy Families coverage are part of the universe.

INSPR **Covered by Plans Purchased On Own**

The INSPR variable is derived from questionnaire item, IA4. Adolescents who are identified by the respondent as being covered by a health insurance plan that was purchased directly from the insurance company or HMO (IA4=1), are considered to be covered by a plans purchased directly (INSPR=1). The cases that skip out of IA4 (-1), or the respondents whom report that the adolescent is not covered by a plan purchased on their own (IA4=2), are considered to be not covered (INSPR=2).

The respondents who refuse (-7) or do not know (-8) if the adolescent is covered by a plan purchased directly in item, IA4, or if this data is missing (-9), are also assigned these values for INSPR.

Adjustment 1: In addition, the cases with INSPR \sim 1, where the adolescent is covered through a plan purchased directly that was missed (IA9_3=1), are also considered to be covered for this variable (INSPR=1).

Note: This variable cannot be used as a count of adolescents covered by a plan purchased directly. Only those adolescents without MediCal, Healthy Families, or employer-based coverage are part of the universe.

INSOG **Covered by Other Government Plans**

The INSOG variable is derived from questionnaire item IA7. Adolescents who are identified by the respondent as being covered by some other government plan (IA7=1 or 2), or who specify some other government plan (IA7OS \sim (-1), are considered to be covered for this variable (INSOG=1). The cases that skip out of IA7=(-1), or where the respondent reports that the adolescent is not covered by a government plan (IA7=3), are considered to be not covered by some other government plan (INSOG=2).

The respondents who refuse (-7) or do not know (-8) if the adolescent is government by some other government plan in item, IA7, or for whom this data is missing (-9), are also assigned these values for INSOG.

Adjustment 1: The cases with INSOG ~=-1, in which the adolescent is covered through some other government plan that was missed (IA9_9=91), are also considered to be covered (INSOG=1).

Adjustment 2: A small number of adolescents are identified by the respondent as covered by Medicare. These cases are included in this variable (INSOG=1).

Note: This variable cannot be used as a count of adolescents with other government plans. Only those without Medicare, MediCal, employer-based, private, or military coverage are asked this question.

IHS Covered by Indian Health Services

The IHS variable is based on information reported in question item IA9_8. Adolescents who are identified by the adult respondent as covered through the Indian Health Service, Tribal Health Program, or Urban Indian Clinic (IA9_8=1) are considered to be covered for this variable (IHS= 1). Those who report that the adolescent is not covered by the Indian Health Service, Tribal Health Program, or Urban Indian Clinic (IA9_8=2) or those that are not identified as American Indian or Alaskan Natives (IA9_8=(-1)) are considered to be not covered for this variable (IHS= 2).

The respondents who refuse (-7) or do not know (-8) if the adolescent is covered by the Indian Health Service, Tribal Health Program, or Urban Indian Clinic, or if this data is missing (-9) are also assigned these values for the IHS variable.

INS Currently Insured

This variable indicates the current insurance status of the adolescents. INS is created with other constructed insurance variables. Adolescents who are assigned a value of 1 (covered) for any of the following variables are considered to be currently insured (INS=1): INSMO, INSHF (Source Data), INSEM, INSPR, INSMO (Source Data), INSOG, INSOT (Source Data). Those who are assigned values of 2 (not covered), for ALL of those variables are considered to be currently uninsured (INS=2).

The remaining cases are assigned a value of (-9) in order to indicate an unknown current insurance status.

INS64 Type of Current Health Coverage Source – Under 65 Years Old

The INS64 variable indicates the type of current health insurance coverage for persons under 65 years old. INS64 is created with other constructed insurance variables

1. Each case with an adult, adolescent or child who is under 65 years old (SRAGE < 65) is tested through the following series of conditions until a respective INS64 value is assigned (please note that the values are not assigned in numerical order):

Condition:	INS64 Value:	INS64 Label:
If INSMO=1	2	Medicaid
If INSHF=1	3	CHIP
If INSMO=1	4	Medicare
If INSEM=1	5	Employment-based

If INSPR=1	6	Privately purchased
If INSML=1 or INSOG=1	7	Other public
If INSOT=1	6	Privately purchased
INS=2	1	Uninsured
All remaining cases under 65 years old (SRAGE < 65)	-9	Not ascertained

- Any cases with an adult, adolescent or child who is 65 years or older (SRAGE >= 65) are assigned a skip value (-1) for this variable:

Condition:	INS64 value:	INS64 value:
If SRAGE >= 65	-1	Skipped >= 65

Note: The insurance variables used to construct INS64 may have been created through a different process for the adults, children, and adolescent cases. Please refer to the description of each of the insurance variables for each group.

INS12M

Months Covered by Health Insurance in Past 12 Months

This variable indicates the number of months a respondent has been insured during the past 12 months. The INS12M variable is derived from items IA24, IA27, IA28, IA20, and IA22 (source variables).

Each case is tested through the following series of conditions until a value for INS12M can be assigned:

- The INS12M values are first assigned to the cases with respondents who report that they have current health coverage during the administration of the questionnaire:

Condition:	INS12M Value:	INS12M Label:
If IA24=1 (have had current health insurance for all of the past 12 months)	12	Insured 12 months
If IA27=2 (have current coverage, some kind of health insurance for all of the past 12 months)	12	Insured 12 months
If IA28 >= 0 (months with no health insurance at all)	12 – IA28 value (#)	Insured # months

- The INS12M values are then assigned to the cases with respondents who do not report current health coverage during the administration of the questionnaire:

Condition:	INS12M Value:	INS12M Label:
If IA20=2 (no health insurance for all of the past 12 months)	0	Insured 0 months
If IA22 >= 1 (months with health insurance)	IA22 value (#)	Insured # months

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3. The remaining cases are assigned not ascertained values (-9) for INS12M:

Condition:	INS12M Value:	INS12M Label:
All remaining cases with missing value	-9	Not ascertained

Note: This variable is constructed in an identical manner in the adult, adolescent, and child data files.

RSN_NOMC

Reasons for Not Having Medi-Cal

The RSN_NOMC variable is derived from questionnaire item IA1A and the INS construct. This variable asks the adult respondent the one main reason that the adolescent is not enrolled in the Medi-Cal program. The RSN_NOMC re-categorizes and reassigns the reasons given for adolescent non-enrollment in Medi-Cal, given their current uninsured status. The RSN_NOMC values are assigned as follows:

Condition:	RSN_NOMC Value:	RSN_NOMC Label:
If IA1A=1	1	Paperwork too difficult
If IA1A=2	2	Didn't know if eligible
If IA1A=3	3	Income too high, ineligible
If IA1A=4	4	Ineligible citizenship/immigration status
If IA1A=5	5	Other not eligible
If IA1A=6, 7	6	Don't believe in/don't need it
If IA1A=8	7	Already have health insurance
If IA1A=9	8	Didn't know it existed
If IA1A=10	9	Don't like/want welfare
If IA1A=91	91	Other
IA1A=-1	92	R thought was insured

Any cases with an adolescent identified as being insured are assigned a skip value (-1) for this variable:

Condition:	RSN_NOMC Value:	RSN_NOMC Label:
If INS=1	-1	Inapplicable

RSN_NOHF

Reasons for Not Having Healthy Families

The RSN_NOHF variable is derived from questionnaire item IA2A and the INS construct. This variable asks the adult respondent the one main reason that the adolescent is not enrolled in the Healthy Families program. The RSN_NOHF re-categorizes and reassigns the reasons given for adolescent non-enrollment in Healthy Families, given his or her current uninsured status. The RSN_NOHF values are assigned as follows:

Condition:	RSN_NOHF Value:	RSN_NOHF Label:
If IA2A=1	1	Paperwork too difficult
If IA2A=2	2	Didn't know if eligible
If IA2A=3	3	Income too high, ineligible
If IA2A=4	4	Ineligible citizenship/immigration status

If IA2A=5	5	Other not eligible
If IA2A=6, 7	6	Don't believe in/don't need it
If IA2A=8	7	Already have health insurance
If IA2A=9	8	Didn't know it existed
If IA2A=10	9	Don't like/want welfare
If IA2A=91	91	Other
IA2A=-1	92	R thought was insured

Any cases with an adolescent identified as being insured are assigned a skip value (-1) for this variable:

Condition:	RSN_NOHF Value:	RSN_NOMC Label:
If INS=1	-1	Inapplicable

RSN_UNIN

Reason for Being Uninsured

The RSN_UNIN variable is derived from questionnaire items, IA18, IA18OS, IA29 and IA29OS, which provide specific reasons for the adolescent having no current health insurance coverage. The RSN_UNIN variable re-categorizes and reassigns reasons given into distinct responses based on IA18, IA18OS IA29 and IA29OS. The RSN_UNIN values are assigned as follows:

Condition:	RSN_UNIN Value:	RSN_UNIN Label:
If IA18=6 or IA29=6	1	Cant afford/too expensive
If IA18=1 or IA29=1	2	Changed employer/lost job
If IA18=9, 10 or IA29=9, 10	3	Healthy (no need)/don't need it
If IA18=2 or IA29=2	4	Employer does not offer
If IA18=5 or IA29=5	5	Not eligible citizenship/immigration
If IA18=3 or IA29=3	6	Not eligible working status
If IA18=4, 14 or IA29=4, 14	7	Not eligible due to health or other
If IA18=7 or IA29=7	8	Family/personal situation changed
If IA18=8 or IA29=8	9	Lost public program coverage
If IA18=11, 12 or IA29=11, 12	10	Pays for own health care
If IA18=16, 20 or IA29=16, 20	11	In process of/problems with
If IA18=17 or IA29=17	12	Didn't like offered/didn't want it
If IA18=18 or IA29=18	13	Procrastination
If IA18=19 or IA29=19	14	Lack of information insurance/forms
If IA18=13, 15 or IA29=13, 15	15	Ins all year, just lost/have coverage
If IA18=21 or IA29=21	16	Other
N/A	92	Thought R was insured

Any cases with an adolescent identified as being insured are assigned a skip value (-1) for this variable:

Condition:	RSN_NOHF Value:	RSN_NOMC Label:
If INS=1	-1	Inapplicable

MANAGE

Managed Care

This variable is derived from questionnaire items IA10A, INS and AI21. This variable determines whether the adolescent participates in managed care or not.

Each case is tested through the following series of conditions until a value for MANAGE can be assigned:

Condition:	MANAGE Value:	MANAGE Label:
If INS=1 and IA10A=1 and AI21=1	1	Managed care
If INS=1 and IA10A=1 and AI21=2	2	No managed care
If INS=1 and IA10A=1 and AI21=(-8), (-9)	3	Insured unknown managed care
If INS=2	4	Uninsured

INSANY

Any Health Insurance in the Last 12 Months

The purpose of the INSANY variable is to indicate whether or not respondents have had any health insurance in the last 12 months. Instead of using the source variables from the questionnaire, INSANY is derived from other constructed insurance variables, including INS64 (Type of current health coverage source – under 65 years old) and INS12M (Number of months covered by health plans in past 12 months).

Adolescent respondents are assigned INSANY values based on the following conditions:

Condition:	INSANY Value:	INSANY Label:
If INS64=1	1	Currently uninsured
If 0<=INS12M<12	2	Uninsured any of the past 12 months
If INS12M=12 and INS64>1	3	Insured all of the past 12 months
If INS12M=-9 or INS64=-9	-9	Not ascertained

INSLT12R

Health Insurance Coverage in Last 12 Months, Including Current Status: 9 Levels

The INSLT12R variable is constructed from a number of questionnaire items that measure both the status and type of health insurance coverage in the past 12 months for persons 65 years and younger. Constructed categories in INSLT12R reflect stability and/or fluctuations in type of health insurance coverage during a 12-month time period. Cases reporting consistency in the type of coverage during the past 12 months or cases reporting uninsured status during all of the past 12 months are assigned the corresponding health insurance coverage category. However, cases in which multiple types of coverage are reflected in a 12-month period are assigned values based on a number of criteria specifying the type of health coverage(s) as well as gaps in coverage.

UNINSANY

Uninsured in Past 12 Months

The UNINSANY variable is derived from the constructed variable INSLT12R, which measures type health insurance coverage in the last 12 months for adults aged 65 years and younger. This variable assigns values based on the adolescent’s insurance status during all or part of the year. Values are assigned as follows:

Condition:	UNINSANY Value:	UNINSANY Label:
If INSLT12=3	1	Uninsured all year
If INSLT12=6, 7	2	Uninsured part year
If INSLT12=1, 2, 4, 5, 8, 9	3	Insured all year

ELIGPRG4

Uninsured Medi-Cal/Health7 Families Eligible (4 levels)

A series of eligibility variables were constructed to estimate and categorize the number of uninsured Californians who meet the eligibility criteria for the “full-scope” Medi-Cal or Healthy Families programs if they were to apply. The estimated number of uninsured eligibles is used to calculate program participation rates for the Medi-Cal and Healthy Families programs.

Criteria for assignment within these eligibility variables are based on a number of factors:

- A. *Categorical Eligibility:* Persons eligible for program participation must meet a number of age-related and/or disability criteria. Questionnaire items are used to measure age, disability status, pregnancy status and whether the respondent is a parent of a minor.
- B. *Family Composition:* Questionnaire items are used to derive family composition necessary for eligibility with these two programs. Variables used include the adult respondent’s marital status, the presence of a spouse in the household, whether each child in the household is related by blood, guardianship to the adult respondent, their spouse or their unmarried partner with whom they share a biological child, or their unmarried partner with whom they share guardianship of a non-biological child.
- C. *Income Eligibility:* Family income as a percent of the federal poverty guidelines is used for both Medi-Cal and Healthy Families income eligibility. The monthly earnings by the adult respondent and/or spouse of the adult respondent and the Federal Poverty guidelines are used as the primary income source in constructing the eligibility variable.
- D. *Immigration Status:* In order to participate in the full-scope Medi-Cal and Healthy Families programs, eligible persons must be citizens or legal residents. Questionnaire items related to immigration status are used to construct the eligibility variable.
- E. *Asset Test:* Adults in the Medi-Cal program are subject to an asset test, but there is no asset test for adolescents in either the Medi-Cal or Healthy Families programs. The main questionnaire item used to construct this variable addresses the combined values of specific types of family assets exceeding \$5000.

Note: Other constructed eligibility variables include ELIGPRG3 (Uninsured Medi-Cal/Healthy Families Eligible -- 4 levels). This variable is constructed using the same criteria and logic as ELIGPRG4.

POVERTY VARIABLES

FAMTP_P

Family Type (2 Levels)

The FAMTP_P variable measures the type of family structure for adolescent households and is a recoded version of FAM_TYPE. This variable is constructed for purposes of determining eligibility for public-based health care programs. This variable has only two levels, indicating the presence of the adolescent and other children within the household.

The parent or legal guardian of the adolescent who is married (AH44=1) and lives with their spouse (AH44=1) and has one child or more or is a co-parent of one child or more is assigned the value of FAMTP_P=3. The parent or legal guardian of the adolescent is considered to be single with no kids (FAMTP_P=4) if he/she is not currently married (AH43=1) or is married but does not live in the same household (AH44=2), and has one child or more, excluding co-parentship.

POVLL

Poverty Level

The POVLL variable indicates the total annual income of the household as a percent of the Federal Poverty Level.

In order for Weststat to approximate the 100%, 200%, and 300% Federal Poverty Level cutoff points for each household, the respondents were asked to report the number of people living in their household that are supported by the total annual household income (AK17/HHINC), and if needed, how many of those people are children under 18 years old (AK18). The 100%, 200%, and 300% cutoff values for each household were calculated during the administration of the survey by multiplying the 1999 Census Poverty Threshold “size of family unit” by “related children under 18 years” table amounts by 1, 2, or 3 (U.S. Bureau of the Census: Current Population Survey). The income values were then rounded to the nearest 100 dollars. The three household income cutoff points for each household were then stored as CATI variables POVRT100, POVRT200, and POVRT300.A. First, the income amounts within the poverty variables (POVRT100, POVRT200, POVRT300) are recoded into the same income range levels as the household income variable (HHINC) with three transitional variables (e.g. POVRT100n, 200n, 300n).

B. Second, the POVLL values are assigned.

1. Each case with a POVRT100n value equal to –9 (not ascertained) is assigned a value of 4 (301%FPL and above) that indicates an income of 301% FPL and above.
2. Next, questionnaire items AK18A, AK18B, AK18C and the CATI variables POVRT100, POVRT200, and POVRT300 are used in order to assign POVLL values to the recoded cases. Each case is tested through the following series of conditions until a value is assigned:

Condition:	POVLL value:	POVLL Label:
AK18A=1 (equal to or less than calculated POVRT100)	1	0-100 %FPL
AK18A=2 (more than POVRT100) or AK18B=1 (equal to or less than calculated POVRT 200)	2	101-200% FPL
AK18B=2 (more than POVRT200) or AK18C=1 (equal to or less than POVRT300)	3	201-300% FPL
AK18C=2 (more than POVRT300)	4	301% FPL and above

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3. For the remaining cases, the actual household income values (HHINC) are compared to the transitional poverty variables POVRT100n, POVRT200n, and POVRT300n, which have the same range levels. Each case is tested through the following conditions until a respective POVLL value is assigned:

Condition:	POVLL value:	POVLL Label:
If HHINC <= POVRT100n	1	0-100% FPL
If HHINC <= POVRT200n	2	101-200% FPL
If HHINC <= POVRT300n	3	201-300% FPL
If HHINC > POVRT300n	4	301% FPL and above
All remaining cases	-9	Not ascertained

POVLL2_P

Poverty Level as Times 100% of FPL (PUF Recode)

The POVLL2_P variable is based on the POVLL2 (source) variable. This variable provides a recoded continuous measure of poverty times the 100% Federal Poverty Level.

Note: Top-code is 24.

OTHER CONSTRUCTED VARIABLES

CITIZEN2

Citizenship Status for Adolescents (3 Levels)

The CITIZEN2 variable is created in order to provide another indication of citizenship. This variable reflects a definition from UCLA’s Center for Health Policy Research. CITIZEN2 is derived from questionnaire items TI3, TI4, and TI5. CITIZEN2 collapses response categories that indicate non-citizenship with and without a green card.

Cases in which citizenship cannot be determined are assigned a value of CITIZEN2=(-9).

CITIZ2_M

Citizenship and Immigration Status of Mother (3 Levels)

The CITIZ2_M variable is derived from the constructed variable, CITIZ1_M, which categorizes the citizenship and immigration status of the adolescent’s mother. The CITIZ2_M variable re-categorizes the mother’s citizenship status into 3 distinct levels.

Values of CITIZ2_M are assigned as follows:

Condition:	CITIZ2_M Value:	CITIZ2_M Label:
If CITIZ1_M=1	1	U.S.-Born Citizen
If CITIZ1_M=2	2	Naturalized Citizen
If CITIZ1_M=3 or 4	3	Non-Citizen

Cases in which citizenship cannot be determined are assigned a value of CITIZ2_M =(-9).

CITIZ2_F

Citizenship and Immigration Status of Father (3 Levels)

The CITIZ2_F variable is derived from the constructed variable CITIZ2, which categorizes the citizenship and immigration status of the adolescent’s father. The CITIZ2_F variable re-categorizes the father’s citizenship status into 3 distinct levels.

Values of CITIZ2_F are assigned as follows:

Condition:	CITIZ2_F Value:	CITIZ2_F Label:
If CITIZ1_F=1	1	U.S.-Born Citizen
If CITIZ1_F=2	2	Naturalized Citizen
If CITIZ1_F=3 or 4	3	Non-Citizen

Cases in which citizenship cannot be determined are assigned a value of CITIZ2_F =(-9).

YRUS

Years Adolescent Lived in U.S.

YRUS is constructed with questionnaire item TI6.

YRUS assigns the number of years the adolescent respondent has lived in the U.S. (TI6) into range levels. In addition, YRUS standardizes the number of years for those with a particular year reported.

The value for this variable is calculated for the respondents who report a particular year by subtracting the year they report from 2003 (2003-TI6YR).

A skip value (-1) is assigned for all persons who were born in the U.S., Guam, Samoa, or the Virgin Islands.

PMARIT

Parents Marital Status

The PMARIT variable is derived from questionnaire item TH1, which assesses the current marital status of the adolescent respondent’s parents. Each case is tested through the following conditions until a PMARIT value is assigned:

Condition:	PMARIT Value:	PMARIT Label:
If TH1=1	1	Married
If TH1=2, 3, 6, 7, or 91	2	Separated/divorced/one or both deceased/other
If TH1=4 or 5	3	Never married

URBAN AND RURAL

UR_CLRT

Rural and Urban - Claritas (4 levels)

The UR_CLRT variable uses a definition of rural and urban from the commercial company Claritas, Inc. Claritas assigns the ZIP codes in California to 4 urbanization categories based on the analysis of population density grids of 1990 geoboundaries, 2000 redistricting updates, and 2001 population estimates. We obtained a file from

Claritas Inc. that contains the ZIP codes in California and their associated urbanization categories (please refer to Appendix B for the ZIP codes associated with each category).

The urbanization categories are defined by Claritas, Inc. as follows:

Urban	ZIP codes associated with dense neighborhoods that represent the central cities of most major metropolitan areas (above 4,150 persons/square mile).
2 nd City	ZIP codes associated with moderate density neighborhoods in population centers (above 1,000 and below 4,150 persons/square mile).
Suburban	ZIP codes associated with moderate density neighborhoods that are not surrounded by urban or second city population centers (Estimated to be above 1,000 persons/square mile and not in an urban or 2 nd city population center).
Town or Rural	ZIP codes associated with isolated small towns or less developed areas on the exurban frontier. (Estimated to be higher than 210, but lower than 950 persons/square mile). Small villages and rural hamlets surrounded by productive farmland or wide-open spaces (Estimated to be 210 persons/square mile and below).

In order to create the UR_CLRT variable, the ZIP code for each case (within the BESTZIP variable) is assigned to its corresponding urbanization category as provided by Claritas. For cases with missing BESTZIP data, the ZIP code the respondent reports in questionnaire item, AM7 is used in order to make this assignment (AM7 > 90001).

In addition, some respondents report the ZIP code of a PO Box location rather than a ZIP code for a residence. Claritas Inc. provided the “parent ZIP codes” for these PO Box locations. The urbanization categories assigned to the “parent” ZIP codes are used in order to classify these cases (see Appendix B).

The cases with no ZIP code information are assigned a not ascertained value (-9) for UR_CLRT.

UR_CLRT2 Rural and Urban - Claritas (2 levels)

Four urbanization categories are defined for the ZIP codes in California by the commercial company Claritas, Inc (please see constructed variable UR_CLRT). The UR_CLRT2 variable is a modified version of the constructed UR_CLRT variable. The UR_CLRT2 variable designates all ZIP codes as either rural or urban.

1. The cases assigned to the urban, 2nd city, or suburban UR_CLRT categories (UR_CLRT=1, 2, or 3) are considered to be urban (UR_CLRT2=1).
2. The cases assigned to the small town or rural UR_CLRT category (UR_CLRT=4) are considered to be rural (UR_CLRT2=2).
3. The remaining cases are assigned a not ascertained value (-9).

Note: This variable is particularly useful since it provides an estimate that seems to correspond to the Census definition of urbanized and non-urbanized areas. As Claritas Inc. states, “the rural and small town/exurban classifications are not far from the density cutoff of the census definition that distinguishes

urbanized from non-urbanized areas,” with non-urban areas having densities above/below 1,000 persons/square mile.

UR_OMB **Rural and Urban – OMB**

The UR_OMB variable reflects the Office of Management and Budget’s (OMB) classification of metropolitan statistical areas (MSAs). Counties are considered to be metropolitan or non-metropolitan depending on whether or not they are included in an MSA. All except one stratum level in the data file is composed entirely of either metropolitan or non-metropolitan counties.

Each case is tested through the following series of conditions until a UR_OMB value is assigned:

1. The cases with respondents who report that they live within a stratum (STRATA2) that is composed entirely of metropolitan counties are assigned to the metropolitan category (UR_OMB=1) (see Appendix B for list of strata).
2. The cases with respondents who report that they live within a stratum (STRATA2) that is composed entirely of non-metropolitan counties are then assigned to the non-metropolitan category (UR_OMB=2) (see Appendix B for list of strata).
3. Next, in order to classify the cases in stratum 34, which contains both a metropolitan and non-metropolitan county, the ZIP code data within the BESTZIP variable is used. Respondents with a ZIP code assigned to the metropolitan county are assigned to the metropolitan category (UR_OMB=1). For any cases with missing BESTZIP data, the ZIP code reported by the respondent in questionnaire item, AM7 is used in making the assignment (AM7 >= 90001). (see Appendix B for the list of ZIP codes).
4. The remaining respondents with a ZIP code associated with stratum 34 are considered to be non-metropolitan (UR_OMB=2).
5. UR_OMB is considered to be not ascertained (-9) for all other cases.

UR_RHP **Rural and Urban – Office of Rural Health Policy**

THE UR_RHP variable uses an operational classification of rural and urban from the Federal Office of Rural Health Policy (ORHP). The ORHP classifies counties as either rural or urban. The counties are classified with the same criteria that the Office of Management and Budget uses in order to determine metropolitan and non-metropolitan areas (see UR_OMB). However, in order take into account particular rural areas within large urban counties (>1225 square miles), certain ZIP codes within these counties are designated as rural.

Each case is tested through the following series of steps until a UR_RPH value is assigned:

1. The respondents who report that they live within a stratum (STRATA2) that is composed entirely of rural counties are coded as rural (UR_RPH=2) (see Appendix B for list of rural strata).
2. The cases with ZIP codes that are designated as rural, within a large urban county, are then assigned to the rural category (see Appendix B for list of these ZIP codes). The BESTZIP variable is used to code the cases. For the particular cases with missing BESTZIP data, the ZIP code the respondent reports in item, AM7 is used in making the assignment (AM7 > 90001).
3. The remaining respondents who report that they live within a stratum that is composed of entirely urban counties are then coded as urban (UR_RHP=1).

4. The ZIP code data is used to assign UR_RHP values for the cases within the stratum that includes both an urban and a rural county (STRATA2=34). Respondents with ZIP codes that are assigned to the rural county within strata 34 are coded as rural (UR_RPH=2) (see Appendix B for detailed list); the remaining respondents within this strata are considered to be urban (UR_RHP=1). For the cases that are missing BESTZIP data, the ZIP code the respondent reports in item, AM7 is also used in making this assignment (AM7 >= 90001).
5. UR_RHP is considered to be not ascertained (-9) for all other cases.

UR_IHS

Rural and Urban – Indian Health Service

The UR_IHS variable uses a county level classification of rural and urban from the Indian Health Service. According to the IHS definition, counties are either classified as urban or rural. All of the strata in the data file (STRATA2) are composed of either rural or urban counties using the IHS definition. In addition, the cities of San Diego, Santa Barbara, and Bakersfield are coded as urban.

1. The cases with respondents who report that they live within a stratum that is composed of urban counties are coded as urban (UR_IHS=1) (see Appendix 1 for detailed list).
2. The cases with ZIP codes associated with the cities of San Diego, Santa Barbara and Bakersfield are also assigned to the urban category for this variable (UR_IHS=1) (see Appendix B for detailed list).
3. Next, the cases with respondents who report that they live within a stratum that is composed of rural counties, and are not associated with ZIP codes for the cities of San Diego, Santa Barbara or Bakersfield, are considered to be rural (UR_IHS=2) (see Appendix B for detailed list).
4. Finally, UR_IHS is considered to be not ascertained (-9) for all other respondents.

Appendix A

Recodes of Country of Birth

“Other specified” responses for country of birth were recoded into the following categories using the definitions below (TI3 and TI3OS).

Please note: original TI3 response categories were also recoded into the following categories.

1=United States: Includes the 50 states and District of Columbia. Includes dependencies or territories associated with the United States, such as America Samoa, Guam, Puerto Rico, and the Virgin Islands.

2=Mexico: Includes all regions.

3=Central America: Includes all countries that are part of the continent. Excludes the Caribbean islands.

4=Other Latin America: Consists of the 12 countries and 3 territories located south of the Isthmus of Panama on the South American Continent. Also includes the Caribbean islands.

5=Asia and Pacific Islands: Composed of the 47 countries and assorted islands east of Europe. Includes the Middle East and Southeast Asian countries. Also includes the Pacific Islands nations of Polynesia, Melanesia, and Micronesia located in the South Pacific Ocean, such as Fiji, the North Mariana Islands, Palau, Samoa,

Tonga, and New Caledonia. Excludes American Samoa and Guam. New Zealand and Australia are also assigned to this category.

6=Europe: Includes the 44 countries and numerous related dependencies, territories, and islands that are considered part of Europe such as the Azores, the Canary Islands and Iceland. Traditionally, the Urals to the east and the Caucasus Mountains to the south form the line of demarcation between Europe and Asia. The part of Russia west of the Urals is sometimes included with Europe. The portion of Turkey west of the Bosphorus is geographically part of Europe. However, because it was not possible to discern where specifically the respondent and his/her parents were from, Russia was coded as Asia as the entire country is officially part of Asia. Because Turkey is generally classified as a Middle Eastern country, which was included in the Asian category, it was classified as an Asian country.

7=Other: Responses that were unidentifiable and those that were too broad to be coded into one of the above categories were also included in this “other” category. Also includes Canada, those countries located on the African continent, some mid-Indian Ocean islands, like Reunion Island and Mauritius, and Cape Verde, an island in the mid-Atlantic Ocean.

Sources:

United States Central Intelligence Agency (CIA) The World Factbook 2001
<http://www.cia.gov/cia/publications/factbook/>

United States Department of State Geographic Learning Site
 Countries and Regions Section
<http://www.state.gov/countries/>

World Atlas.com- uses information from the CIA's The World Factbook 2001
<http://www.worldatlas.com/aatlas/infopage/contnent.htm>

For “Pacific Islands” category used the following sources:

- Pacific Islanders' Cultural Association Website with a listing of Pacific Islands' nations
<http://www.pica-org.org/websurf/websurf.html>
- Asian Development Bank Policy Paper “A Pacific Strategy for the New Millennium”. September 2000
http://www.adb.org/Documents/Policies/Pacific_Strategy/default.asp

Appendix B

Urban and Rural Specifications

Rural and Urban – Claritas

Claritas – Urban

90001, 90002, 90003, 90004, 90005, 90006, 90007, 90008, 90010, 90011, 90012, 90013, 90014, 90015, 90016, 90017, 90018, 90019, 90020, 90021, 90022, 90023, 90024, 90025, 90026, 90027, 90028, 90029, 90031, 90032, 90033, 90034, 90035, 90036, 90037, 90038, 90039, 90040, 90041, 90042, 90043, 90044, 90045, 90046, 90047, 90048, 90056, 90057, 90058, 90059, 90061, 90062, 90063, 90064, 90065, 90066, 90067, 90068, 90069, 90071, 90089, 90201, 90202, 90211, 90212, 90220, 90221, 90222, 90230, 90232, 90240, 90241, 90242, 90247, 90248, 90249, 90250, 90254, 90255, 90260, 90262, 90266, 90270, 90277, 90278, 90280, 90291, 90292, 90301, 90302, 90303, 90304, 90305, 90401, 90403, 90404, 90405, 90501, 90502, 90503, 90504, 90505, 90601, 90605, 90606, 90620, 90621, 90623, 90630, 90638, 90639, 90640, 90650, 90660, 90670, 90680, 90701, 90703, 90706, 90712, 90713, 90715, 90716, 90723, 90740, 90747, 90802, 90803, 90804, 90805, 90806, 90807, 90808, 90810, 90813, 90814, 90815, 91007, 91030, 91101, 91103, 91105, 91106, 91123, 91202, 91203, 91204, 91205, 91206, 91207, 91306, 91316, 91324, 91325, 91330, 91331, 91335, 91340, 91343, 91345, 91356, 91401, 91402, 91405, 91406, 91411, 91505, 91522, 91601, 91602, 91604, 91605, 91606, 91607, 91706, 91710, 91731, 91732, 91733, 91746, 91754, 91755, 91762, 91763, 91766, 91767, 91768, 91770, 91775, 91776, 91780, 91786, 91790, 91801, 91803, 91910, 91911, 91915, 91921, 91932, 91933, 91941, 91944, 91945, 91946, 91947, 91950, 91951, 92101, 92102, 92103, 92104, 92105, 92108, 92110, 92111, 92113, 92114, 92115, 92116, 92118, 92120, 92139, 92162, 92178, 92316, 92324, 92335, 92376, 92401, 92404, 92405, 92410, 92411, 92503, 92504, 92505, 92626, 92627, 92646, 92648, 92655, 92663, 92683, 92701, 92703, 92704, 92705, 92706, 92707, 92708, 92780, 92801, 92802, 92804, 92805, 92806, 92832, 92833, 92840, 92841, 92843, 92844, 92866, 92868, 93301, 93304, 93305, 93307, 93386, 93612, 93701, 93702, 93703, 93704, 93705, 93710, 93721, 93726, 93727, 93740, 93741, 94014, 94015, 94041, 94065, 94086, 94087, 94102, 94103, 94104, 94105, 94107, 94108, 94109, 94110, 94111, 94112, 94114, 94115, 94116, 94117, 94118, 94121, 94122, 94123, 94124, 94127, 94129, 94131, 94132, 94133, 94134, 94401, 94402, 94403, 94404, 94501, 94536, 94540, 94541, 94542, 94544, 94545, 94555, 94557, 94577, 94578, 94579, 94580, 94587, 94601, 94602, 94603, 94605, 94606, 94607, 94608, 94609, 94610, 94612, 94613, 94619, 94621, 94702, 94703, 94705, 94706, 94710, 95008, 95013, 95014, 95050, 95051, 95053, 95110, 95111, 95112, 95113, 95116, 95117, 95118, 95121, 95122, 95124, 95125, 95126, 95127, 95128, 95129, 95130, 95133, 95136, 95140, 95148, 95202, 95204, 95205, 95207, 95210, 95211, 95608, 95609, 95610, 95611, 95621, 95639, 95660, 95759, 95814, 95815, 95816, 95817, 95818, 95819, 95820, 95821, 95822, 95823, 95824, 95825, 95832, 95841, 95842, 95864

Claritas - Second City

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PO Box (2nd City): 91359, 92046, 92030, 92150, 92244, 92589, 92694, 93093, 93102, 93539, 93586, 93786, 94531, 94522, 94581, 94701, 94712, 95063, 95201, 95241, 95353, 95381, 95406, 95402, 95929, 95992

Claritas - Suburban

90049, 90073, 90077, 90210, 90245, 90272, 90274, 90275, 90290, 90293, 90402, 90602, 90603, 90604, 90631, 90710, 90717, 90720, 90731, 90732, 90742, 90743, 90744, 90745, 90746, 91001, 91006, 91010, 91011, 91016, 91020, 91023, 91024, 91040, 91042, 91043, 91046, 91104, 91107, 91108, 91201, 91208, 91214, 91302, 91303, 91304, 91307, 91311, 91326, 91342, 91344, 91352, 91353, 91355, 91364, 91367, 91371, 91381, 91403, 91423, 91436, 91501, 91502, 91504, 91506, 91618, 91701, 91702, 91709, 91711, 91722, 91723, 91724, 91730, 91737, 91739, 91740, 91741, 91743, 91744, 91745, 91748, 91750, 91752, 91759, 91761, 91764, 91765, 91773, 91784, 91789, 91791, 91792, 91902, 91908, 91913, 91914, 91942, 91943, 91976, 91977, 91978, 92008, 92009, 92014, 92019, 92020, 92021, 92029, 92037, 92038, 92040, 92057, 92064, 92067, 92069, 92071, 92072, 92078, 92096, 92106, 92117, 92119, 92121, 92122, 92123, 92124, 92126, 92127, 92129, 92130, 92131, 92313, 92318, 92336, 92337, 92346, 92350, 92352, 92354, 92369, 92373, 92374, 92377, 92378, 92385, 92391, 92399, 92407, 92408, 92501, 92506, 92507, 92508, 92509, 92551, 92571, 92602, 92604, 92606, 92610, 92612, 92614, 92618, 92620, 92624, 92625, 92647, 92649, 92650, 92651, 92652, 92656, 92657, 92660, 92661, 92662, 92672, 92673, 92675, 92677, 92678, 92679, 92688, 92692, 92782, 92807, 92808, 92811, 92821, 92823, 92831, 92835, 92845, 92861, 92862, 92865, 92867, 92869, 92870, 92886, 92887, 93001, 93003, 93004, 93005, 93007, 93010, 93012, 93042, 93108, 93110, 93111, 93116, 93117, 93220, 93306, 93308, 93309, 93311, 93313, 93383, 93551, 93563, 93611, 93626, 93711, 93720, 93722, 94002, 94005, 94010, 94022, 94023, 94024, 94025, 94026, 94027, 94030, 94035, 94037, 94040, 94043, 94044, 94061, 94062, 94063, 94064, 94066, 94070, 94080, 94083, 94085, 94088, 94089, 94130, 94301, 94303, 94304, 94305, 94306, 94502, 94507, 94510, 94513, 94516, 94517, 94521, 94525, 94526, 94528, 94530, 94538, 94539, 94546, 94547, 94548, 94549, 94552, 94553, 94556, 94560, 94561, 94563, 94564, 94569, 94570, 94572, 94575, 94586, 94589, 94598, 94611, 94618, 94707, 94708, 94709, 94720, 94803, 94804, 94805, 94806, 94903, 94920, 94930, 94941, 94945, 94947, 94949, 94957, 94960, 94965, 94966, 94978, 94979, 95001, 95002, 95003, 95010, 95017, 95030, 95032, 95035, 95054, 95060, 95070, 95071, 95073, 95119, 95120, 95123, 95131, 95132, 95134, 95135, 95138, 95139, 95141, 95208, 95209, 95212, 95215, 95219, 95307, 95319, 95355, 95357, 95358, 95367, 95409, 95439, 95534, 95624, 95626, 95628, 95630, 95655, 95661, 95662, 95670, 95673, 95677, 95678, 95691, 95741, 95742, 95746, 95747, 95758, 95763, 95826, 95827, 95828, 95829, 95831, 95833, 95834, 95838, 95843

PO Box (Suburban): 90213, 90734, 91003, 91025, 91117, 91221, 91380, 91365, 91729, 91714, 92018, 92013, 92092, 92177, 92196, 92375, 92423, 92517, 92519, 92605, 92834, 92846, 92863, 93002, 93107, 93303, 94012, 94912, 94914, 94948, 95031, 95056, 95061, 95153, 95101, 95102, 95798

Claritas - Small Town Exurban

90263, 90265, 90704, 91310, 91384, 91901, 91903, 91935, 91962, 91963, 92028, 92055,
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 96140, 96143, 96150, 96151, 96152, 96154, 96155, 96156, 96157, 96158

PO Box (Small town-Exurban): 93246, 93912, 95473, 91387, 91390

Rural and urban – IHS

IHS - Urban

STRATA2:

1, 3, 4, 7, 8, 9, 11, 12, 13, 15, 17, 19, 21, 22, 23, 25, 31, 34

(Los Angeles, Orange, Santa Clara, Alameda, Sacramento, Contra Costa, San Francisco, Ventura, San Mateo, San Joaquin, Stanislaus, Solano, Santa Cruz, Marin, San Luis Obispo, Merced, Napa, Monterey/San Benito.)

San Diego ZIP codes:

92103, 92104, 92105, 92106, 92107, 92108, 92109, 92110, 92111, 92112, 92113, 92114, 92115, 92116, 92117, 92118, 92119, 92120, 92121, 92122, 92123, 92124, 92126, 92127, 92128, 92129, 92130, 92131, 92132, 92133, 92134, 92135, 92136, 92137, 92138, 92139, 92140, 92142, 92143, 92145, 92147, 92149, 92150, 92152, 92153, 92154, 92155, 92158, 92159, 92160, 92161, 92162, 92163, 92164, 92165, 92166, 92167, 92168, 92169, 92170, 92171, 92172, 92173, 92174, 92175, 92176, 92177, 92178, 92179, 92182, 92184, 92186, 92187, 92190, 92191, 92192, 92193, 92194, 92195, 92196, 92197, 92198, 92199

Santa Barbara ZIP codes:

93101, 93102, 93103, 93105, 93106, 93107, 93108, 93109, 93110, 93111, 93116, 93117, 93118, 93120, 93121, 93130, 93140, 93150, 93160, 93190, 93199

Bakersfield ZIP codes:

93301, 93302, 93303, 93304, 93305, 93306, 93307, 93308, 93309, 93311, 93312, 93313, 93380, 93381, 93382, 93383, 93384, 93385, 93386, 93387, 93388, 93389, 93390

Rural and Urban – OMB

OMB - Non-Metropolitan

STRATA2:

30, 32, 35, 36, 37, 38, 39, 40, 41

(Imperial, Kings, Humboldt/Del Norte, Siskiyou/Lassen/Trinity/Modoc, Mendicino/Lake, Tehama/Colusa/Glenn, Sutter/Yuba, Nevada/Sierra/Plumas, Tuolumne/Mariposa/Calaveras/Mono/Amador/Alpine/Inyo.)

In stratum 34 (Monterey/San Benito) and ZIP code is 95023, 95024, 95043, 95045, or 95075.

Rural and Urban – Office of Rural Health Policy

RHP - Rural

STRATA2:

30, 32, 35, 36, 37, 38, 39, 40, 41

(Imperial, Kings, Humboldt/Del Norte, Siskiyou/Lassen/Trinity/Modoc, Mendocino/Lake, Tehama/Colusa/Glenn, Sutter/Yuba, Nevada/Sierra/Plumas, Tuolumne/Mariposa/Calaveras/Mono/Amador/Alpine/Inyo.)

In stratum 34 (Monterey/San Benito) and ZIP code is 95023, 95024, 95043, 95045, 95075.

Rural ZIP codes (within large urban counties):

95925, 95948, 95954, 95967, 95969, 95978, 95619, 95623, 95629, 95633, 95634, 95635, 95636, 95643, 95646, 95651, 95656, 95667, 95684, 95709, 95720, 95721, 95726, 95735, 96142, 96150, 96151, 96152, 96154, 96155, 96156, 96157, 96158, 93210, 93234, 93242, 93514, 93609, 93618, 93620, 93622, 93631, 93638, 93646, 93648, 93654, 93656, 93657, 93662, 93205, 93215, 93216, 93224, 93226, 93238, 93240, 93249, 93250, 93252, 93255, 93268, 93280, 93283, 93285, 93287, 93501, 93502, 93504, 93505, 93516, 93523, 93524, 93527, 93555, 93556, 93596, 90704, 93601, 93610, 93637, 93639, 93644, 93635, 93661, 93665, 95301, 95312, 95322, 95324, 95334, 95369, 95374, 95380, 95381, 95388, 95602, 95603, 95604, 95724, 96140, 96143, 96145, 96148, 96160, 96161, 96162, 92220, 92223, 92225, 92226, 92230, 92241, 92258, 92276, 92282, 92563, 92589, 92590, 92591, 92592, 92593, 92242, 92252, 92267, 92268, 92277, 92278, 92280, 92284, 92304, 92309, 92310, 92311, 92312, 92314, 92319, 92323, 92332, 92338, 92347, 92363, 92364, 92366, 92398, 92004, 95336, 95337, 95361, 95376, 95378, 93422, 93423, 93428, 93432, 93446, 93447, 93453, 93465, 93460, 93463, 93464, 95020, 95021, 95023, 95360, 96047, 96059, 94515, 94952, 94954, 94955, 95416, 95433, 95476, 95316, 95363, 95382, 93207, 93208, 93212, 93218, 93221, 93247, 93256, 93257, 93258, 93260, 93265, 93267, 93270, 93272, 93274, 93275, 93282, 93286, 93542, 93615, 93647, 93673, 93015, 93016, 93040

RHP - Urban

STRATA2:

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31 or 33 and not a designated rural ZIP code (see "rural" ZIP codes above)

(Los Angeles, San Diego, Orange, Santa Clara, San Bernardino, Riverside, Alameda, Sacramento, Contra Costa, Fresno, San Francisco, Ventura, San Mateo, Kern, San Joaquin, Sonoma, Stanislaus, Santa Barbara, Solano, Tulare, Santa Cruz, Marin, San Luis Obispo, Pacer, Merced, Butte, Shasta, Yolo, El Dorado, Napa, Madera)

In stratum 34 (Monterey/San Benito) and ZIP code is not 95023, 95024, 95043, 95045, 95075.