Example 6: Variance estimates for Percentages: Males and Females. Teenagers. Percentage of Males and Females 15-19 Years of Age Who Have Ever Had Sexual Intercourse by Sex and Race and Hispanic Origin

Following are the programs and output for an analysis of the percentage of males and females 15-19 years of age interviewed in Cycle 6 of the NSFG who have ever had sexual intercourse. A cross-tabulation of having ever had sexual intercourse by sex, race and Hispanic origin was generated by SAS 9.1, SUDAAN 8.0.2, STATA 8.0, and WesVar 4.1. The estimates calculated are equivalent across software. However, due to the specific methods used in calculations, standard errors vary slightly, and design effects will vary more substantially.

SAS data files were converted to STATA 8.0 and WesVar 4.1 formats using DBMS/COPY 8.0. Variables in upper case are original NSFG Cycle 6 variables or recodes. Variables in lower case represent variables that were recoded as part of the variance estimation program. Library and file names are generic and it is assumed the user will apply names specific to his or her computing environment. Formatting and library options have been deleted; preferences will vary across user organizations.

SAS 9.1

The DATA and SET steps create a dataset which contains the variables for males and females to be used in the analysis: sex (FEMALE), race and Hispanic origin (HISPRACE), and ever had sexual intercourse (HADSEX). The SORT statements prepare the male and female datasets for merging, which is completed with the MERGE statement.

The PROC SURVEYFREQ produces a frequency cross-tabulation of unweighted and weighted cell counts for the variables (i.e. HISPRACE, FEMALE, and HADSEX) specified in the TABLE statement. The WEIGHT statement identifies the weight variable (FINALWGT) to be used in estimating the weighted frequency. PROC SURVEYFREQ calculates standard errors appropriate to the complex sample design identified by the STRATUM and CLUSTER statements. The specification of ROW in the TABLE statement limits the cell counts and percentages to the row, and DEFF requests calculation of the design effects for the row percentages.

SAS 9.1 Program

```
data NSFG.EX6M (keep=CASEID AGER HADSEX SEST SECU FINALWGT);
set NSFG.MALES;
data NSFG.EX6F (keep=CASEID AGER HADSEX SEST SECU_R SECU FINALWGT);
set NSFG.FEMALES; SECU=SECU_R;
run;

proc sort data=NSFG.EX6M; by CASEID;
proc sort data=NSFG.EX6F; by CASEID;
data NSFG.EX6TOT;
merge NSFG.EX6M NSFG.EX6F; by CASEID;
run;

proc surveyfreq data=NSFG.EX6TOT;
stratum SEST;
cluster SECU;
weight  FINALWGT;
table HISPRACE*HADSEX FEMALE*HISPRACE*HADSEX / row deff;
where AGER lt 20;
run;
```

Design effects are greater than 1.0 for all row proportions due to the clustering in the selection and an increase in variance due to weighting. The estimated proportions are equivalent to the other software systems.

SAS 9.1 Output

The SURVEYFREQ Procedure

Data Summary

Number of Strata	84
Number of Clusters	168
Number of Observations	2271
Sum of Weights	20042150.2

Table of HISPRACE by HADSEX

HISPRACE	HADSEX	Frequency	Weighted Frequency	Std Dev of Wgt Freq	Percent	Std Err of Percent	Design Effect	Row Percent	Std Err of Row Percent
HISPANIC	YES, R EVER HAD INTERCOURSE	236	1517374	129202	7.5709	0.5941	1.1448	48.1971	3.0517
	NO, R NEVER HAD INTERCOURSE	230	1630892	181372	8.1373	0.8308	2.0960	51.8029	3.0517
	Total	466	3148266	247320	15.7082	1.0697	1.9617	100.000	
NON-HISPANIC WHITE	YES, R EVER HAD INTERCOURSE	552	5576479	297960	27.8238	1.2798	1.8513	43.7164	1.9228
	NO, R NEVER HAD INTERCOURSE	683	7179568	407353	35.8223	1.5857	2.4826	56.2836	1.9228
	Total	1235	12756046	503397	63.6461	1.4584	2.0867	100.000	
NON-HISPANIC BLACK	YES, R EVER HAD INTERCOURSE	268	1787621	163810	8.9193	0.8105	1.8354	60.1415	2.5371
	NO, R NEVER HAD INTERCOURSE	179	1184736	111955	5.9112	0.5346	1.1664	39.8585	2.5371
	Total	447	2972357	228779	14.8305	1.1039	2.1899	100.000	
NON-HISPANIC OTHER	YES, R EVER HAD INTERCOURSE	48	414128	49807	2.0663	0.2501	0.7018	35.5328	4.2836
	NO, R NEVER HAD INTERCOURSE	75	751352	121172	3.7489	0.6083	2.3278	64.4672	4.2836
	Total	123	1165480	137390	5.8151	0.6922	1.9859	100.000	
Total	YES, R EVER HAD INTERCOURSE	1104	9295602	381036	46.3803	1.4954	2.0412		
	NO, R NEVER HAD INTERCOURSE	1167	10746549	477568	53.6197	1.4954	2.0412		
	Total	2271	20042150	614161	100.000				

SAS 9.1 Output cont.

Table of HISPRACE by HADSEX
Controlling for female=Male

HISPRACE	HADSEX	Frequency	Weighted Frequency	Std Dev of Wgt Freq	Percent	Std Err of Percent	Design Effect	Row Percent	Std Err of Row Percent
HISPANIC	YES, R EVER HAD INTERCOURSE	137	902614	98922	8.8422	0.9194	2.3806	55.4548	4.3398
	NO, R NEVER HAD INTERCOURSE	98	725041	107501	7.1026	0.9293	2.9711	44.5452	4.3398
	Total	235	1627655	152941	15.9448	1.2348	2.5823	100.000	
NON-HISPANIC WHITE	YES, R EVER HAD INTERCOURSE	260	2671726	202798	26.1728	1.6569	3.2251	41.1007	2.5041
	NO, R NEVER HAD INTERCOURSE	362	3828713	285970	37.5068	2.1561	4.5021	58.8993	2.5041
	Total	622	6500439	359803	63.6796	2.0170	3.9930	100.000	
NON-HISPANIC BLACK	YES, R EVER HAD INTERCOURSE	134	933844	134588	9.1481	1.2497	4.2653	63.3740	4.3469
	NO, R NEVER HAD INTERCOURSE	71	539700	79333	5.2870	0.7780	2.7439	36.6260	4.3469
	Total	205	1473544	167602	14.4351	1.5558	4.4487	100.000	
NON-HISPANIC OTHER	YES, R EVER HAD INTERCOURSE	20	189055	44831	1.8520	0.4313	2.3233	31.1765	6.5692
	NO, R NEVER HAD INTERCOURSE	39	417349	93488	4.0884	0.8991	4.6792	68.8235	6.5692
	Total	59	606404	108396	5.9405	1.0303	4.3122	100.000	
Total	YES, R EVER HAD INTERCOURSE	551	4697239	288082	46.0151	2.0751	3.9348		
	NO, R NEVER HAD INTERCOURSE	570	5510803	341089	53.9849	2.0751	3.9348		
	Total	1121	10208042	463938	100.000				

Table of HISPRACE by HADSEX
Controlling for female=Female

HISPRACE	HADSEX	Frequency	Weighted Frequency	Std Dev of Wgt Freq	Percent	Std Err of Percent	Design Effect	Row Percent	Std Err of Row Percent
HISPANIC	YES, R EVER HAD INTERCOURSE	99	614760	72665	6.2513	0.7268	2.0460	40.4285	3.6006
	NO, R NEVER HAD INTERCOURSE	132	905851	115326	9.2113	1.1208	3.4099	59.5715	3.6006
	Total	231	1520611	151459	15.4626	1.4589	3.6960	100.000	
NON-HISPANIC WHITE	YES, R EVER HAD INTERCOURSE	292	2904753	228570	29.5375	1.8335	3.6664	46.4344	2.5296
	NO, R NEVER HAD INTERCOURSE	321	3350855	225729	34.0738	1.8819	3.5787	53.5656	2.5296
	Total	613	6255608	327046	63.6113	1.8549	3.3742	100.000	
NON-HISPANIC BLACK	YES, R EVER HAD INTERCOURSE	134	853777	80357	8.6818	0.8401	2.0208	56.9635	2.9578
	NO, R NEVER HAD INTERCOURSE	108	645037	77501	6.5592	0.7405	2.0310	43.0365	2.9578
	Total	242	1498814	131437	15.2410	1.2978	2.9596	100.000	
NON-HISPANIC OTHER	YES, R EVER HAD INTERCOURSE	28	225073	49021	2.2887	0.4916	2.4536	40.2579	6.5881
	NO, R NEVER HAD INTERCOURSE	36	334004	66668	3.3964	0.6670	3.0784	59.7421	6.5881
	Total	64	559076	88138	5.6851	0.8729	3.2258	100.000	
Total	YES, R EVER HAD INTERCOURSE	553	4598363	252159	46.7593	1.8107	2.9895		
	NO, R NEVER HAD INTERCOURSE	597	5235746	269052	53.2407	1.8107	2.9895		
	Total	1150	9834109	380244	100.000				

SUDAAN 8.0.2

A SAS-callable version of SUDAAN 8.0.2 was used to calculate the estimates for this example. The DATA and SET steps used to create a dataset are identical to the steps used in the SAS 9.1 program and thus omitted for this program. The variable needed for this analysis, (i.e. 'agerx') is created in the DATA step.

The PROC CROSSTAB procedure produces a frequency cross-tabulation of unweighted and weighted cell counts for the analysis variables (i.e. HISPRACE, FEMALE, and HADSEX) specified in the TABLE statement. The DESIGN used in this computation is specified as WR, with replacement. By specifying the option DEFF in the CROSSTAB statement, design effects are calculated. The NEST statement specifies the strata (SEST) and cluster (SECU) variables for calculating standard errors appropriate to the complex sample design. The WEIGHT statement identifies FINALWGT for estimating the weighted frequency. The specification of NSUM, WSUM, ROWPER, SEROW, and DEFFROW in the PRINT statement limits printed output to row percentages, standard errors of row percentages, and design effects for row percentages.

SUDAAN 8.0.2 Program

```
(same merge as required in SAS 9.1)

data NSFG.EX6TOTX;
set NSFG.EX6TOT;
if AGER lt 20 then agerx=1;
if AGER ge 20 then agerx=2;
if FEMALE=0 then FEMALE=2;
proc sort data=NSFG.EX6TOTX;
by SEST SECU;
proc crosstab data=NSFG.EX6TOTX design=wr deff;
nest SEST SECU;
weight  FINALWGT;
subgroup FEMALE HISPRACE HADSEX;
levels 2,4,2;
tables FEMALE*HISPRACE*HADSEX;
subpopn agerx=1;
print nsum wsum rowper serow deffrow;
run;
```

The estimated percentages of males and females 15-19 years of age who have had sexual intercourse, by race and Hispanic origin, are identical to those calculated by SAS 9.1:

SUDAAN 8.0.2 Output

```
                    Males and Females 15-19 who have had intercourse

                                S U D A A N
          Software for the Statistical Analysis of Correlated Data
         Copyright      Research Triangle Institute      January 2003
                              Release 8.0.2


Number of observations read    :  12571    Weighted count :122707736
Observations in subpopulation  :   2271    Weighted count: 20042150
Denominator degrees of freedom :     84

Variance Estimation Method: Taylor Series (WR)
For Subpopulation: AGERX = 1
by: FEMALE, Race and hispanic origin, EVER HAD SEX AT ALL.

for: FEMALE = Total.
```

Race and hispanic origin		EVER HAD SEX AT ALL Total	YES, R EVER HAD INTERCOURSE	NO, R NEVER HAD INTERCOURSE
Total	Sample Size	2271.0000	1104.0000	1167.0000
	Weighted Size	20042150.2153	9295601.6106	10746548.6048
	Row Percent	100.0000	46.3803	53.6197
	SE Row Percent	0.0000	1.4954	1.4954
	DEFF Row Percent #4	.	2.0421	2.0421
HISPANIC	Sample Size	466.0000	236.0000	230.0000
	Weighted Size	3148266.2929	1517373.8561	1630892.4368
	Row Percent	100.0000	48.1971	51.8029
	SE Row Percent	0.0000	3.0517	3.0517
	DEFF Row Percent #4	.	1.7381	1.7381
NON-HISPANIC WHITE	Sample Size	1235.0000	552.0000	683.0000
	Weighted Size	12756046.4847	5576478.9163	7179567.5684
	Row Percent	100.0000	43.7164	56.2836
	SE Row Percent	0.0000	1.9228	1.9228
	DEFF Row Percent #4	.	1.8557	1.8557
NON-HISPANIC BLACK	Sample Size	447.0000	268.0000	179.0000
	Weighted Size	2972357.4304	1787621.0575	1184736.3730
	Row Percent	100.0000	60.1415	39.8585
	SE Row Percent	0.0000	2.5371	2.5371
	DEFF Row Percent #4	.	1.2003	1.2003
NON-HISPANIC OTHER	Sample Size	123.0000	48.0000	75.0000
	Weighted Size	1165480.0072	414127.7806	751352.2266
	Row Percent	100.0000	35.5328	64.4672
	SE Row Percent	0.0000	4.2836	4.2836
	DEFF Row Percent #4	.	0.9853	0.9853

SUDAAN 8.0.2 Output cont.

Variance Estimation Method: Taylor Series (WR)
For Subpopulation: AGERX = 1
by: FEMALE, Race and hispanic origin, EVER HAD SEX AT ALL.

for: FEMALE = Male.

Race and hispanic origin		EVER HAD SEX AT ALL Total	YES, R EVER HAD INTERCOURSE	NO, R NEVER HAD INTERCOURSE
Total	Sample Size	1121.0000	551.0000	570.0000
	Weighted Size	10208041.5227	4697238.9846	5510802.5381
	Row Percent	100.0000	46.0151	53.9849
	SE Row Percent	0.0000	2.0751	2.0751
	DEFF Row Percent			
	#4	.	1.9431	1.9431
HISPANIC	Sample Size	235.0000	137.0000	98.0000
	Weighted Size	1627655.0786	902613.6665	725041.4121
	Row Percent	100.0000	55.4548	44.5452
	SE Row Percent	0.0000	4.3398	4.3398
	DEFF Row Percent			
	#4	.	1.7917	1.7917
NON-HISPANIC WHITE	Sample Size	622.0000	260.0000	362.0000
	Weighted Size	6500438.9072	2671725.9759	3828712.9313
	Row Percent	100.0000	41.1007	58.8993
	SE Row Percent	0.0000	2.5041	2.5041
	DEFF Row Percent			
	#4	.	1.6111	1.6111
NON-HISPANIC BLACK	Sample Size	205.0000	134.0000	71.0000
	Weighted Size	1473543.7376	933844.1143	539699.6233
	Row Percent	100.0000	63.3740	36.6260
	SE Row Percent	0.0000	4.3469	4.3469
	DEFF Row Percent			
	#4	.	1.6688	1.6688
NON-HISPANIC OTHER	Sample Size	59.0000	20.0000	39.0000
	Weighted Size	606403.7992	189055.2279	417348.5714
	Row Percent	100.0000	31.1765	68.8235
	SE Row Percent	0.0000	6.5692	6.5692
	DEFF Row Percent			
	#4	.	1.1866	1.1866

SUDAAN 8.0.2 Output cont.

Variance Estimation Method: Taylor Series (WR)
For Subpopulation: AGERX = 1
by: FEMALE, Race and hispanic origin, EVER HAD SEX AT ALL.

for: FEMALE = Female.

Race and hispanic origin		EVER HAD SEX AT ALL Total	YES, R EVER HAD INTERCOURSE	NO, R NEVER HAD INTERCOURSE
Total	Sample Size	1150.0000	553.0000	597.0000
	Weighted Size	9834108.6926	4598362.6260	5235746.0667
	Row Percent	100.0000	46.7593	53.2407
	SE Row Percent	0.0000	1.8107	1.8107
	DEFF Row Percent			
	#4	.	1.5145	1.5145
HISPANIC	Sample Size	231.0000	99.0000	132.0000
	Weighted Size	1520611.2143	614760.1896	905851.0248
	Row Percent	100.0000	40.4285	59.5715
	SE Row Percent	0.0000	3.6006	3.6006
	DEFF Row Percent			
	#4	.	1.2434	1.2434
NON-HISPANIC WHITE	Sample Size	613.0000	292.0000	321.0000
	Weighted Size	6255607.5775	2904752.9405	3350854.6370
	Row Percent	100.0000	46.4344	53.5656
	SE Row Percent	0.0000	2.5296	2.5296
	DEFF Row Percent			
	#4	.	1.5771	1.5771
NON-HISPANIC BLACK	Sample Size	242.0000	134.0000	108.0000
	Weighted Size	1498813.6928	853776.9431	645036.7497
	Row Percent	100.0000	56.9635	43.0365
	SE Row Percent	0.0000	2.9578	2.9578
	DEFF Row Percent			
	#4	.	0.8636	0.8636
NON-HISPANIC OTHER	Sample Size	64.0000	28.0000	36.0000
	Weighted Size	559076.2080	225072.5528	334003.6552
	Row Percent	100.0000	40.2579	59.7421
	SE Row Percent	0.0000	6.5881	6.5881
	DEFF Row Percent			
	#4	.	1.1549	1.1549

STATA 8.0

The *use* statement specifies the dataset to be used. The *svyset* command specifies the weight (FINALWGT), strata (SEST), and cluster (SECU) variables to be used by STATA 8.0 in estimation. These settings are saved for the current session, but can be cleared by entering the *clear* command or running *svyset* again with different settings.

The *generate* and *replace* statements create the recode 'agerx'. The *svytab* command produces a cross-tabulation of HADSEX, agerx, and HISPRACE and provides estimates appropriate to the complex sample design identified by the *svyset* command. The requested estimates and output are limited by specifying *row, deff,* and *se* after *svytab*.

STATA 8.0 Program

```
use "EX6TOT.dta"

svyset [pweight=FINALWGT], strata(SEST) psu(SECU)

drop if AGER > 19

generate femalex = (FEMALE==1) if FEMALE~=.
generate male    = (FEMALE==2) if FEMALE~=.

svytab HISPRACE HADSEX, row se deff percent
svytab HISPRACE HADSEX, subpop(femalex) row se deff percent
svytab HISPRACE HADSEX, subpop(male) row se deff percent
```

As expected, the estimated percentages of males and females 15-19 years of age by race and hispanic origin are identical to those calculated by SAS 9.1 and SUDAAN 8.0.2:

STATA 8.0 Output

```
. svytab hisprace hadsex, row se deff percent
pweight:  finalwgt                          Number of obs      =      2271
Strata:   sest                              Number of strata   =        84
PSU:      secu                              Number of PSUs     =       168
                                            Population size    =  20042150

Race and  |
hispanic  |    EVER HAD SEX AT ALL
origin    |       1        2    Total
----------+-------------------------
        1 |    48.2     51.8      100
          | (3.052)  (3.052)
          |    1.33     1.33
          |
        2 |   43.72    56.28      100
          | (1.923)  (1.923)
          |   2.171    2.171
          |
        3 |   60.14    39.86      100
          | (2.537)  (2.537)
          |    .904     .904
          |
        4 |   35.53    64.47      100
          | (4.284)  (4.284)
          |   1.057    1.057
          |
    Total |   46.38    53.62      100
          | (1.495)  (1.495)
          |   .0674    .0674

  Key:  row percentages
        (standard errors of row percentages)
        deff for variances of row percentages

  Pearson:
    Uncorrected   chi2(3)         =   36.4932
    Design-based  F(2.86, 240.31) =   10.3819     P = 0.0000

  Mean generalized deff           =    1.3028
  CV of generalized deffs         =    0.1799
```

STATA 8.0 Output cont.

```
. svytab hisprace hadsex, subpop(male) row se deff percent
pweight:  finalwgt                              Number of obs      =      2271
Strata:   sest                                  Number of strata   =        84
PSU:      secu                                  Number of PSUs     =       168
                                                Population size    =  20042150
Subpop.:  male==1                               Subpop. no. of obs =      1121
                                                Subpop. size       =  10208042

Race and  |
hispanic  |    EVER HAD SEX AT ALL
origin    |     Yes       No    Total
----------+-------------------------
 Hispanic |   55.45    44.55      100
          |  (4.34)   (4.34)
          |   27.02       33
          |
    White |    41.1     58.9      100
          | (2.504)  (2.504)
          |   3.752    3.093
          |
    Black |   63.37    36.63      100
          | (4.347)  (4.347)
          |   26.29    43.63
          |
    Other |   31.18    68.82      100
          | (6.569)  (6.569)
          |   274.5    127.2
          |
    Total |   46.02    53.98      100
          | (2.075)  (2.075)
          |   2.004    2.004

  Key:  row percentages
        (standard errors of row percentages)
        deff for variances of row percentages
  Pearson:
    Uncorrected   chi2(3)         =   78.7731
    Design-based  F(2.98, 250.38) =    9.5833     P = 0.0000
  Mean generalized deff           =    3.0138
  CV of generalized deffs         =    0.1014
```

STATA 8.0 Output

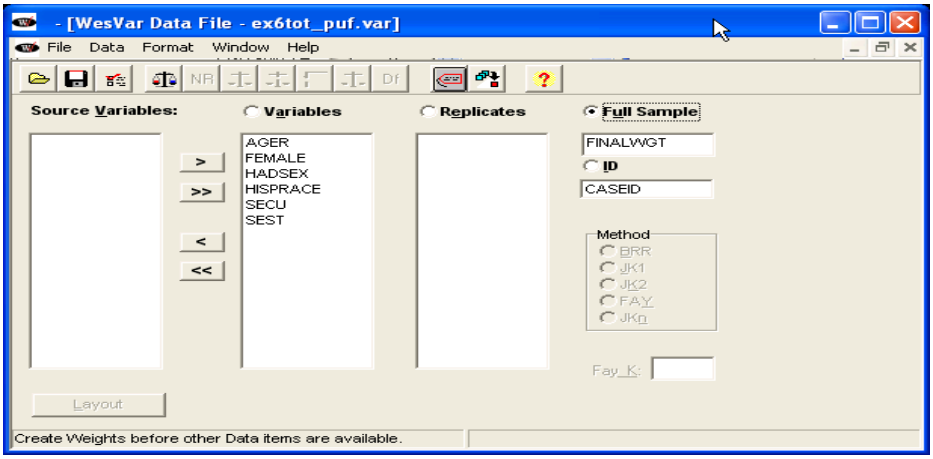
```
. svytab hisprace hadsex, subpop(femalex) row se deff percent
pweight:  finalwgt                              Number of obs      =      2271
Strata:   sest                                  Number of strata   =        84
PSU:      secu                                  Number of PSUs     =       168
                                                Population size    =  20042150
Subpop.:  femalex==1                            Subpop. no. of obs =      1150
                                                Subpop. size       = 9834108.7

Race and  |
hispanic  |    EVER HAD SEX AT ALL
origin    |     Yes       No    Total
----------+--------------------------
 Hispanic |   40.43    59.57      100
          | (3.601)  (3.601)
          |   24.64    17.27
          |
    White |   46.43    53.57      100
          |  (2.53)   (2.53)
          |   3.425    3.173
          |
    Black |   56.96    43.04      100
          | (2.958)  (2.958)
          |   12.29     15.9
          |
    Other |   40.26    59.74      100
          | (6.588)  (6.588)
          |   216.2    147.3
          |
    Total |   46.76    53.24      100
          | (1.811)  (1.811)
          |   1.467    1.467

  Key:  row percentages
        (standard errors of row percentages)
        deff for variances of row percentages

  Pearson:
    Uncorrected   chi2(3)         =   22.3836
    Design-based  F(2.91, 244.09) =    3.5643     P = 0.0158
  Mean generalized deff           =    2.1182
  CV of generalized deffs         =    0.1756
```

WesVar 4.1

Not all WesVar 4.1 windows are displayed for this example. Readers may refer to Example 1 for a full set of windows. An SPSS file was imported for use in analysis.

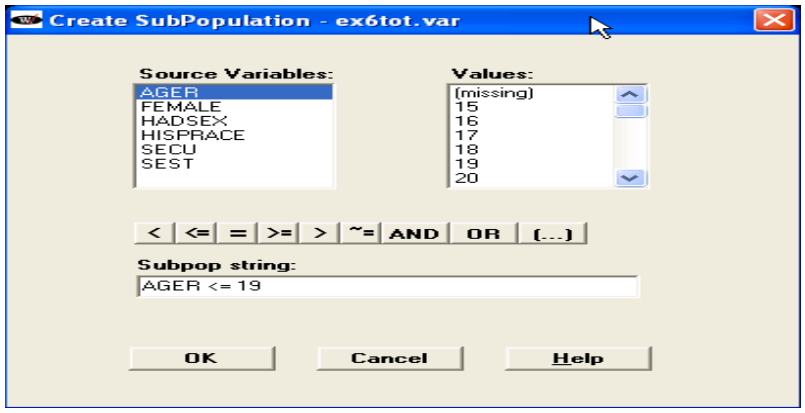
Window 1 displays the selections and categorization of variables to be used in the current analysis. After variables are selected and categorized, a new dataset is created.

WesVar 4.1 Program Window 1



To restrict the analysis to males and females 15-19 years of age, create a subpopulation by selecting *Subset Population* under the *Data* menu.

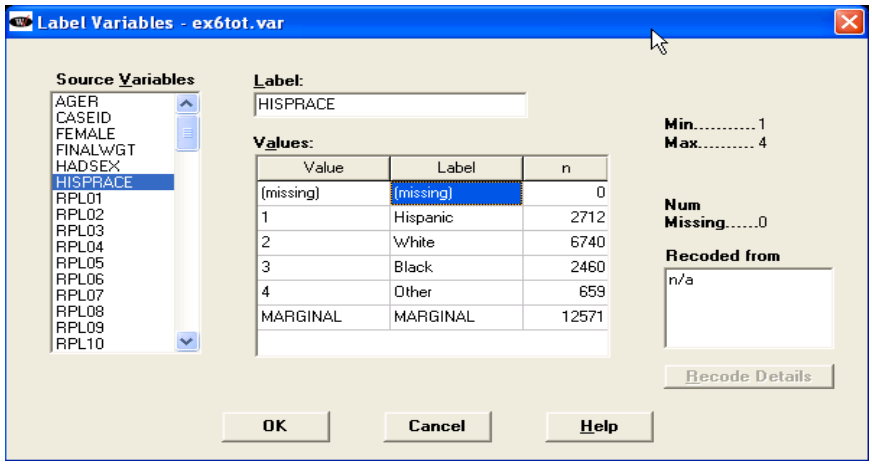
WesVar 4.1 Program Window 2



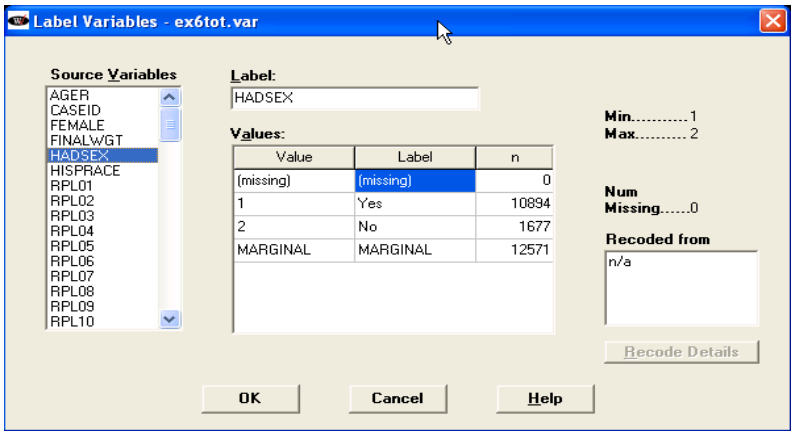
Windows 3a through 3c display how value labels were applied. Under the *Format* menu, select *Label*. Select the variable to be labelled and enters the labels in the "Label" column of the table.

WesVar 4.1 Program Window 3a

WesVar 4.1 Program Window 3b

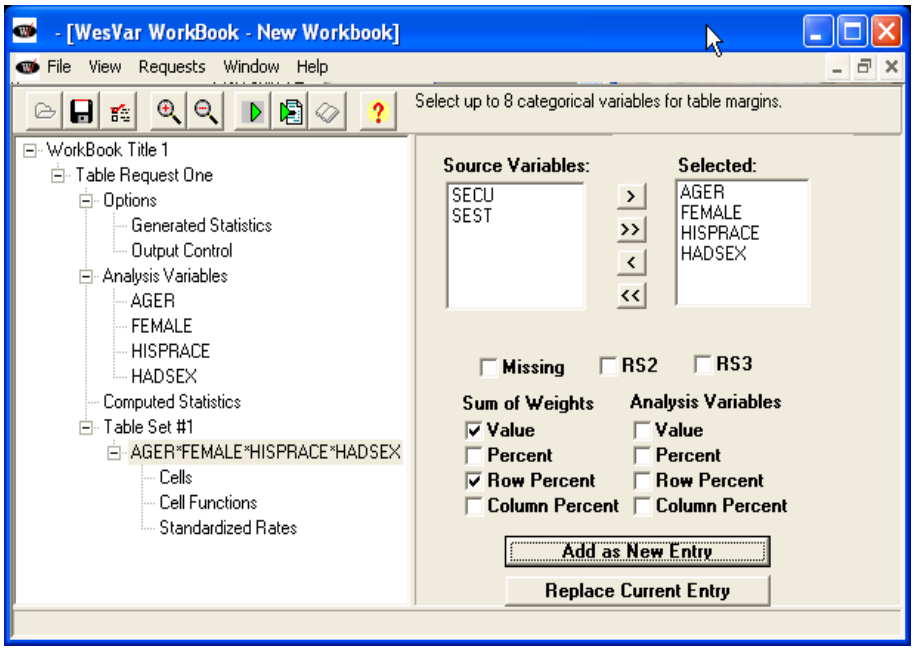


WesVar 4.1 Program Window 3c



In Window 4 select the variables for analysis for a table estimating the percentage of males and females 15-19 years of age who have had sexual intercourse, by race and Hispanic origin.

WesVar 4.1 Program Window 4



The output provided by WesVar is a list-wise statement of all the estimates requested.

WesVar 4.1 Output

```
WESVAR VERSION NUMBER :          v4.1
TIME THE JOB EXECUTED :          12:18:50 10/18/2004
INPUT DATASET NAME :             ex6.var
TIME THE INPUT DATASET CREATED :          12:16:27 10/18/2004
FULL SAMPLE WEIGHT : FINALWGT
REPLICATE WEIGHTS :   RPL01...RPL84
VARIANCE ESTIMATION METHOD :   BRR

OPTION COMPLETE :      ON
OPTION FUNCTION LOG :            ON
OPTION VARIABLE LABEL :          OFF
OPTION VALUE LABEL :  ON
OPTION OUTPUT REPLICATE ESTIMATES :       OFF
FINITE POPULATION CORRECTION FACTOR :     1.00000
VALUE OF ALPHA (CONFIDENCE LEVEL %) :     0.05000 (95.00000 %)
DEGREES OF FREEDOM : 84
t VALUE :    1.989

ANALYSIS VARIABLES :  FEMALE, HISPRACE, HADSEX
COMPUTED STATISTIC :  None Specified.
TABLE(S) :   FEMALE*HISPRACE*HADSEX

FACTOR(S) :1.00

NUMBER OF REPLICATES :           84
NUMBER OF OBSERVATIONS READ :  2271
WEIGHTED NUMBER OF OBSERVATIONS READ :   20042150.215
```

WesVar 4.1 Output cont.

FEMALE	HISPRACE	HADSEX	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	CELL_n	DENOM_n	DEFF
Male	Hispanic	Yes	SUM_WTS	VALUE	902613.67	98922.083	137	N/A	N/A
Male	Hispanic	No	SUM_WTS	VALUE	725041.41	107501.399	98	N/A	N/A
Male	Hispanic	MARGINAL	SUM_WTS	VALUE	1627655.08	152940.687	235	N/A	N/A
Male	White	Yes	SUM_WTS	VALUE	2671725.98	202798.218	260	N/A	N/A
Male	White	No	SUM_WTS	VALUE	3828712.93	285970.375	362	N/A	N/A
Male	White	MARGINAL	SUM_WTS	VALUE	6500438.91	359803.459	622	N/A	N/A
Male	Black	Yes	SUM_WTS	VALUE	933844.11	134587.772	134	N/A	N/A
Male	Black	No	SUM_WTS	VALUE	539699.62	79332.851	71	N/A	N/A
Male	Black	MARGINAL	SUM_WTS	VALUE	1473543.74	167602.04	205	N/A	N/A
Male	Other	Yes	SUM_WTS	VALUE	189055.23	44830.742	20	N/A	N/A
Male	Other	No	SUM_WTS	VALUE	417348.57	93487.97	39	N/A	N/A
Male	Other	MARGINAL	SUM_WTS	VALUE	606403.8	108396.469	59	N/A	N/A
Male	MARGINAL	Yes	SUM_WTS	VALUE	4697238.98	288082.102	551	N/A	N/A
Male	MARGINAL	No	SUM_WTS	VALUE	5510802.54	341088.511	570	N/A	N/A
Male	MARGINAL	MARGINAL	SUM_WTS	VALUE	10208041.52	463938.395	1121	N/A	N/A
Female	Hispanic	Yes	SUM_WTS	VALUE	614760.19	72664.533	99	N/A	N/A
Female	Hispanic	No	SUM_WTS	VALUE	905851.02	115325.604	132	N/A	N/A
Female	Hispanic	MARGINAL	SUM_WTS	VALUE	1520611.21	151459.446	231	N/A	N/A
Female	White	Yes	SUM_WTS	VALUE	2904752.94	228570.495	292	N/A	N/A
Female	White	No	SUM_WTS	VALUE	3350854.64	225728.535	321	N/A	N/A
Female	White	MARGINAL	SUM_WTS	VALUE	6255607.58	327046.483	613	N/A	N/A
Female	Black	Yes	SUM_WTS	VALUE	853776.94	80356.797	134	N/A	N/A
Female	Black	No	SUM_WTS	VALUE	645036.75	77501.054	108	N/A	N/A
Female	Black	MARGINAL	SUM_WTS	VALUE	1498813.69	131437.17	242	N/A	N/A
Female	Other	Yes	SUM_WTS	VALUE	225072.55	49021.106	28	N/A	N/A
Female	Other	No	SUM_WTS	VALUE	334003.66	66668.253	36	N/A	N/A
Female	Other	MARGINAL	SUM_WTS	VALUE	559076.21	88138.169	64	N/A	N/A
Female	MARGINAL	Yes	SUM_WTS	VALUE	4598362.63	252159.085	553	N/A	N/A
Female	MARGINAL	No	SUM_WTS	VALUE	5235746.07	269052.465	597	N/A	N/A
Female	MARGINAL	MARGINAL	SUM_WTS	VALUE	9834108.69	380244.034	1150	N/A	N/A
MARGINAL	Hispanic	Yes	SUM_WTS	VALUE	1517373.86	129201.805	236	N/A	N/A
MARGINAL	Hispanic	No	SUM_WTS	VALUE	1630892.44	181371.713	230	N/A	N/A
MARGINAL	Hispanic	MARGINAL	SUM_WTS	VALUE	3148266.29	247320.121	466	N/A	N/A
MARGINAL	White	Yes	SUM_WTS	VALUE	5576478.92	297959.597	552	N/A	N/A
MARGINAL	White	No	SUM_WTS	VALUE	7179567.57	407353.253	683	N/A	N/A
MARGINAL	White	MARGINAL	SUM_WTS	VALUE	12756046.48	503396.804	1235	N/A	N/A
MARGINAL	Black	Yes	SUM_WTS	VALUE	1787621.06	163810.059	268	N/A	N/A
MARGINAL	Black	No	SUM_WTS	VALUE	1184736.37	111954.727	179	N/A	N/A
MARGINAL	Black	MARGINAL	SUM_WTS	VALUE	2972357.43	228778.905	447	N/A	N/A
MARGINAL	Other	Yes	SUM_WTS	VALUE	414127.78	49806.643	48	N/A	N/A
MARGINAL	Other	No	SUM_WTS	VALUE	751352.23	121171.999	75	N/A	N/A
MARGINAL	Other	MARGINAL	SUM_WTS	VALUE	1165480.01	137390.143	123	N/A	N/A
MARGINAL	MARGINAL	Yes	SUM_WTS	VALUE	9295601.61	381036.403	1104	N/A	N/A
MARGINAL	MARGINAL	No	SUM_WTS	VALUE	10746548.6	477568.035	1167	N/A	N/A
MARGINAL	MARGINAL	MARGINAL	SUM_WTS	VALUE	20042150.22	614160.544	2271	N/A	N/A

WesVar 4.1 Output cont.

FEMALE	HISPRACE	HADSEX	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	CELL_n	DENOM_n	DEFF
Male	Hispanic	Yes	SUM_WTS	ROWPCT	55.45	4.446	137	235	1.881
Male	Hispanic	No	SUM_WTS	ROWPCT	44.55	4.446	98	235	1.881
Male	Hispanic	MARGINAL	SUM_WTS	ROWPCT	100	.	235	235	.
Male	White	Yes	SUM_WTS	ROWPCT	41.1	2.524	260	622	1.637
Male	White	No	SUM_WTS	ROWPCT	58.9	2.524	362	622	1.637
Male	White	MARGINAL	SUM_WTS	ROWPCT	100	.	622	622	.
Male	Black	Yes	SUM_WTS	ROWPCT	63.37	4.353	134	205	1.673
Male	Black	No	SUM_WTS	ROWPCT	36.63	4.353	71	205	1.673
Male	Black	MARGINAL	SUM_WTS	ROWPCT	100	.	205	205	.
Male	Other	Yes	SUM_WTS	ROWPCT	31.18	6.428	20	59	1.136
Male	Other	No	SUM_WTS	ROWPCT	68.82	6.428	39	59	1.136
Male	Other	MARGINAL	SUM_WTS	ROWPCT	100	.	59	59	.
Male	MARGINAL	Yes	SUM_WTS	ROWPCT	46.02	2.085	551	1121	1.962
Male	MARGINAL	No	SUM_WTS	ROWPCT	53.98	2.085	570	1121	1.962
Male	MARGINAL	MARGINAL	SUM_WTS	ROWPCT	100	.	1121	1121	.
Female	Hispanic	Yes	SUM_WTS	ROWPCT	40.43	3.689	99	231	1.305
Female	Hispanic	No	SUM_WTS	ROWPCT	59.57	3.689	132	231	1.305
Female	Hispanic	MARGINAL	SUM_WTS	ROWPCT	100	.	231	231	.
Female	White	Yes	SUM_WTS	ROWPCT	46.43	2.552	292	613	1.606
Female	White	No	SUM_WTS	ROWPCT	53.57	2.552	321	613	1.606
Female	White	MARGINAL	SUM_WTS	ROWPCT	100	.	613	613	.
Female	Black	Yes	SUM_WTS	ROWPCT	56.96	3.033	134	242	0.908
Female	Black	No	SUM_WTS	ROWPCT	43.04	3.033	108	242	0.908
Female	Black	MARGINAL	SUM_WTS	ROWPCT	100	.	242	242	.
Female	Other	Yes	SUM_WTS	ROWPCT	40.26	6.964	28	64	1.291
Female	Other	No	SUM_WTS	ROWPCT	59.74	6.964	36	64	1.291
Female	Other	MARGINAL	SUM_WTS	ROWPCT	100	.	64	64	.
Female	MARGINAL	Yes	SUM_WTS	ROWPCT	46.76	1.826	553	1150	1.541
Female	MARGINAL	No	SUM_WTS	ROWPCT	53.24	1.826	597	1150	1.541
Female	MARGINAL	MARGINAL	SUM_WTS	ROWPCT	100	.	1150	1150	.
MARGINAL	Hispanic	Yes	SUM_WTS	ROWPCT	48.2	3.116	236	466	1.812
MARGINAL	Hispanic	No	SUM_WTS	ROWPCT	51.8	3.116	230	466	1.812
MARGINAL	Hispanic	MARGINAL	SUM_WTS	ROWPCT	100	.	466	466	.
MARGINAL	White	Yes	SUM_WTS	ROWPCT	43.72	1.943	552	1235	1.894
MARGINAL	White	No	SUM_WTS	ROWPCT	56.28	1.943	683	1235	1.894
MARGINAL	White	MARGINAL	SUM_WTS	ROWPCT	100	.	1235	1235	.
MARGINAL	Black	Yes	SUM_WTS	ROWPCT	60.14	2.545	268	447	1.207
MARGINAL	Black	No	SUM_WTS	ROWPCT	39.86	2.545	179	447	1.207
MARGINAL	Black	MARGINAL	SUM_WTS	ROWPCT	100	.	447	447	.
MARGINAL	Other	Yes	SUM_WTS	ROWPCT	35.53	4.247	48	123	0.969
MARGINAL	Other	No	SUM_WTS	ROWPCT	64.47	4.247	75	123	0.969
MARGINAL	Other	MARGINAL	SUM_WTS	ROWPCT	100	.	123	123	.
MARGINAL	MARGINAL	Yes	SUM_WTS	ROWPCT	46.38	1.505	1104	2271	2.068
MARGINAL	MARGINAL	No	SUM_WTS	ROWPCT	53.62	1.505	1167	2271	2.068
MARGINAL	MARGINAL	MARGINAL	SUM_WTS	ROWPCT	100	.	2271	2271	.