GENERAL NOTES ABOUT ANALYSIS EXAMPLES REPLICATION
These examples are intended to provide guidance on how to use the commands/procedures for analysis of complex sample survey data and assume all data management and other preliminary work is done.

In some software packages certain procedures or options are not available but we have made every attempt to demonstrate how to match the output produced by Stata 10+ in the textbook. Check the ASDA website for updates to the various software tools we cover.

NOTES ABOUT CATEGORICAL DATA ANALYSIS USING WesVar 4.3

WesVar offers repeated replication variance estimation methods such as Jackknife and Balanced Repeated Replication.

WesVar is a point and click tool with log and output files that echo the options and variables selected for the particular analysis. As a result the output presented for WesVar examples consists of the log file and selected output. The exact syntax is not presented since it is not generated by the program nor is it possible to run WesVar with just user-written syntax but “Workbook” files can be created for a record of the analysis session. The workbook files will be posted on the ASDA web site in the near future and would enhance this output. From the output provided, you can determine the data used, output options, variables analyzed and other details of the analysis.

WesVar software can perform nearly all of the examples in Chapter 6 through use of the Tables and Regression menus. Some of the fine points of this tool are the use of the subpopulation filter in the regression request statement, creation of variables used in the analyses (means, ratios, differences, etc.), various output options to specify the statistics of interest and a number ofRepeated Replication variance estimation methods (JK1, JK2, BRR, etc.). For these examples, the JK2 method was used throughout but other methods are available. See the WesVar User’s Guide for details.
ANALYSIS EXAMPLE 6.1 NHANES DATA

WESVAR VERSION NUMBER : 4.3
TIME THE JOB EXECUTED : 12:36:14 03/26/2010
INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\nhanes0506_july11_2009_JK2.var
TIME THE INPUT DATASET CREATED : 12:27:25 03/26/2010
FULL SAMPLE WEIGHT : WTMEC2YR
REPLICATE WEIGHTS : RPL01...RPL15
VARIANCE ESTIMATION METHOD : JK2

OPTION COMPLETE : ON
OPTION FUNCTION LOG : OFF
OPTION VARIABLE LABEL : OFF
OPTION VALUE LABEL : OFF
OPTION OUTPUT REPPLICATE ESTIMATES : OFF
FINITE POPULATION CORRECTION FACTOR : 1.00000
VALUE OF ALPHA (CONFIDENCE LEVEL %) : 0.050000 (95.00000 %)
DEGREES OF FREEDOM : 15
$t$ VALUE : 2.131
SUBSET CRITERIA : age >= 18
ANALYSIS VARIABLES : irregular
COMPUTED STATISTIC : None Specified.
TABLE(S) : irregular
FACTOR(S) : 1.00

NUMBER OF REPLICATES : 15
NUMBER OF OBSERVATIONS READ : 5563
WEIGHTED NUMBER OF OBSERVATIONS READ : 21770471.284
EXCLUDED: 229 observations excluded from CELL_n because of zero weights.

<table>
<thead>
<tr>
<th>irregular</th>
<th>STATISTIC</th>
<th>EST_TYPE</th>
<th>ESTIMATE</th>
<th>STDERROR</th>
<th>LOWER 95%</th>
<th>UPPER 95%</th>
<th>DEFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>97.05</td>
<td>0.674</td>
<td>95.61</td>
<td>98.48</td>
<td>8.114</td>
</tr>
<tr>
<td>1</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>2.95</td>
<td>0.674</td>
<td>1.52</td>
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</tr>
<tr>
<td></td>
<td>MARGINAL</td>
<td>SUM_WTS</td>
<td>100.00</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: CODES FOR IRREGULAR: 0=NO 1=YES

ANALYSIS EXAMPLE 6.1 NHANES DATA

WESVAR VERSION NUMBER : 4.3
TIME THE JOB EXECUTED : 12:41:26 03/26/2010
INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\nhanes0506_july11_2009_JK2.var
TIME THE INPUT DATASET CREATED : 12:27:25 03/26/2010
FULL SAMPLE WEIGHT : WTMEC2YR
REPLICATE WEIGHTS : RPL01...RPL15
VARIANCE ESTIMATION METHOD : JK2

OPTION COMPLETE : ON
OPTION FUNCTION LOG : OFF
OPTION VARIABLE LABEL : OFF
OPTION VALUE LABEL : OFF
OPTION OUTPUT REPPLICATE ESTIMATES : OFF
FINITE POPULATION CORRECTION FACTOR : 1.00000
VALUE OF ALPHA (CONFIDENCE LEVEL %) : 0.050000 (95.00000 %)
DEGREES OF FREEDOM : 15
$t$ VALUE : 2.131
SUBSET CRITERIA : age >= 18
ANALYSIS VARIABLES : irregular
COMPUTED STATISTIC : M_irregular = MEAN(irregular)
TABLE(S) : irregular
FACTOR(S) : 1.00

NUMBER OF REPLICATES : 15
NUMBER OF OBSERVATIONS READ : 5563
WEIGHTED NUMBER OF OBSERVATIONS READ : 21770471.284
EXCLUDED: 229 observations excluded from CELL_n because of zero weights.

<table>
<thead>
<tr>
<th>STATISTIC</th>
<th>EST_TYPE</th>
<th>ESTIMATE</th>
<th>STDERROR</th>
<th>LOWER 95%</th>
<th>UPPER 95%</th>
<th>DEFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUM_WTS</td>
<td>VALUE</td>
<td>2.10e+08</td>
<td>1.281e+07</td>
<td>1.83e+08</td>
<td>2.38e+08</td>
<td>N/A</td>
</tr>
<tr>
<td>irregular</td>
<td>VALUE</td>
<td>6210830.05</td>
<td>1.336e+06</td>
<td>3362457.07</td>
<td>90359203.04</td>
<td>N/A</td>
</tr>
<tr>
<td>M_irregular</td>
<td>VALUE</td>
<td>0.03</td>
<td>0.007</td>
<td>0.02</td>
<td>0.04</td>
<td>8.114</td>
</tr>
</tbody>
</table>

NOTE: CODES FOR IRREGULAR: 0=NO 1=YES
ANALYSIS EXAMPLE 6.2 NHANES DATA

WESVAR VERSION NUMBER : 4.3
TIME THE JOB EXECUTED : 15:01:10 04/05/2010
INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\nhanes0506_july11_2009_JK2.var
TIME THE INPUT DATASET CREATED : 14:17:14 04/05/2010
FULL SAMPLE WEIGHT : WTMEC2YR
REPLICATE WEIGHTS : RPL01...RPL15
VARIANCE ESTIMATION METHOD : JK2

OPTION COMPLETE : ON
OPTION FUNCTION LOG : ON
OPTION VARIABLE LABEL : ON
OPTION VALUE LABEL : ON
OPTION OUTPUT REPPLICATE ESTIMATES : OFF
FINITE POPULATION CORRECTION FACTOR : 1.00000
VALUE OF ALPHA (CONFIDENCE LEVEL %) : 0.05000 (95.00000 %)
DEGREES OF FREEDOM : 15
t VALUE : 2.131
SUBSET CRITERIA : age >= 18

ANALYSIS VARIABLES : RIDRETH1
COMPUTED STATISTIC : None Specified.
TABLE(S) : RIDRETH1
FACTOR(S) : 1.00

NUMBER OF REPLICATES : 15
NUMBER OF OBSERVATIONS READ : 5563
WEIGHTED NUMBER OF OBSERVATIONS READ : 217700471.284
EXCLUDED: 229 observations excluded from CELL_n because of zero weights.

<table>
<thead>
<tr>
<th>STATISTIC</th>
<th>EST_TYPE</th>
<th>ESTIMATE</th>
<th>STDERR</th>
<th>LOWER 95%</th>
<th>UPPER 95%</th>
<th>DEFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mexican</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>8.08</td>
<td>1.006</td>
<td>5.93</td>
<td>10.22</td>
</tr>
<tr>
<td>Other Hispanic</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>3.38</td>
<td>0.745</td>
<td>1.79</td>
<td>4.97</td>
</tr>
<tr>
<td>White</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>71.41</td>
<td>2.772</td>
<td>65.51</td>
<td>77.32</td>
</tr>
<tr>
<td>Black</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>11.73</td>
<td>1.986</td>
<td>7.49</td>
<td>15.96</td>
</tr>
<tr>
<td>Other</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>5.40</td>
<td>0.588</td>
<td>4.15</td>
<td>6.66</td>
</tr>
<tr>
<td>MARGINAL</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>100.00</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
</tbody>
</table>
**ANALYSIS EXAMPLE 6.3 NHANES DATA**

WESVAR VERSION NUMBER : 4.3
TIME THE JOB EXECUTED : 15:04:04 04/05/2010
INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\nhanes0506_july11_2009_JK2.var
TIME THE INPUT DATASET CREATED : 14:17:14 04/05/2010
FULL SAMPLE WEIGHT : WTMEC2YR
REPLICATE WEIGHTS : RPL01...RPL15
VARIANCE ESTIMATION METHOD : JK2

OPTION COMPLETE : ON
OPTION FUNCTION LOG : OFF
OPTION VARIABLE LABEL : ON
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 : 15
t VALUE : 2.131
SUBSET CRITERIA : AGE >= 18
ANALYSIS VARIABLES : None Specified.
COMPUTED STATISTIC : None Specified.
TABLE(S) : bp_cat

FACTORS : 1.00

NUMBER OF REPLICATES : 15
NUMBER OF OBSERVATIONS READ : 5563
WEIGHTED NUMBER OF OBSERVATIONS READ : 217700471.284
EXCLUDED: 229 observations excluded from CELL_n because of zero weights.

<table>
<thead>
<tr>
<th>bp_cat 1=Normal 2=PreHBP 3=Stage1 4=Stage 2</th>
<th>STATISTIC</th>
<th>EST_TYPE</th>
<th>ESTIMATE</th>
<th>STDERR</th>
<th>LOWER 95%</th>
<th>UPPER 95%</th>
<th>DEFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal SUM_WTS PERCENT 47.11 1.123 44.71 49.50 2.560</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Hypertensive SUM_WTS PERCENT 41.85 1.182 39.33 44.37 2.905</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Stage 1 HBP SUM_WTS PERCENT 8.64 0.621 7.32 9.96 2.467</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>Stage 2 HBP SUM_WTS PERCENT 2.40 0.241 1.88 2.91 1.260</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARGINAL SUM_WTS PERCENT 100.00 . . .</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STATISTIC EST_TYPE ESTIMATE STDERR LOWER 95% UPPER 95% DEFF
Normal SUM_WTS PERCENT 47.11 1.123 44.71 49.50 2.560
Pre-Hypertensive SUM_WTS PERCENT 41.85 1.182 39.33 44.37 2.905
Stage 1 HBP SUM_WTS PERCENT 8.64 0.621 7.32 9.96 2.467
Stage 2 HBP SUM_WTS PERCENT 2.40 0.241 1.88 2.91 1.260
MARGINAL SUM_WTS PERCENT 100.00 . . .
## Analysis Example 6.4: GOF with Defined Population Proportions: Not Available in Wesvar

## Analysis Example 6.5: Graphing Not Available in Wesvar

## Analysis Example 6.6 NCS-R Data

WESVAR VERSION NUMBER :  4.3  
TIME THE JOB EXECUTED :  15:15:30 04/05/2010  
INPUT DATASET NAME :  C:\Program Files\Westat\WesVar\Data\final_ncsr_P1_JK2.var  
TIME THE INPUT DATASET CREATED :  15:15:03 04/05/2010  
FULL SAMPLE WEIGHT :  NCSRWTSH  
REPLICATE WEIGHTS :  RPL01...RPL42  
VARIANCE ESTIMATION METHOD :  JK2  

<table>
<thead>
<tr>
<th>OPTION COMPLETE</th>
<th>ON</th>
<th>OPTION FUNCTION LOG</th>
<th>OFF</th>
<th>OPTION VARIABLE LABEL</th>
<th>ON</th>
<th>OPTION VALUE LABEL</th>
<th>ON</th>
<th>OPTION OUTPUT REPLICATE ESTIMATES</th>
<th>OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINITE POPULATION CORRECTION FACTOR</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VALUE OF ALPHA (CONFIDENCE LEVEL %)</td>
<td>0.05000 (95.00000 %)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEGREES OF FREEDOM</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>t VALUE</td>
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</tr>
</tbody>
</table>

ANALYSIS VARIABLES: None Specified.  
COMPUTED STATISTIC: None Specified.  

### TABLE(S): **SEX**\***mde**

| FACTOR(S) | 1.00 |  
| NUMBER OF REPLICATES | 42 |  
| NUMBER OF OBSERVATIONS READ | 9282 |  
| WEIGHTED NUMBER OF OBSERVATIONS READ | 9282.000 |  

### Sex  mde  STATISTIC  EST_TYPE  ESTIMATE  STDERROR  LOWER 95%  UPPER 95%  DEFF

<table>
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<tr>
<th>SEX</th>
<th>mde</th>
<th>STATISTIC</th>
<th>EST_TYPE</th>
<th>ESTIMATE</th>
<th>STDERROR</th>
<th>LOWER 95%</th>
<th>UPPER 95%</th>
<th>DEFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>No</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
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<td>0.694</td>
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<td>Male</td>
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<td>7.91</td>
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<td>PERCENT</td>
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<td>0.536</td>
<td>39.08</td>
<td>41.25</td>
<td>1.109</td>
</tr>
<tr>
<td>Female</td>
<td>Yes</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>11.95</td>
<td>0.303</td>
<td>11.34</td>
<td>12.56</td>
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<tr>
<td>Female</td>
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<td>MARGINALSUM_WTS</td>
<td>PERCENT</td>
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<td>51.04</td>
<td>53.19</td>
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<tr>
<td>MARGINAL</td>
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<td>SUM_WTS</td>
<td>PERCENT</td>
<td>80.83</td>
<td>0.485</td>
<td>79.85</td>
<td>81.81</td>
<td>1.408</td>
</tr>
<tr>
<td>MARGINAL</td>
<td>Yes</td>
<td>SUM_WTS</td>
<td>PERCENT</td>
<td>19.17</td>
<td>0.485</td>
<td>18.19</td>
<td>20.15</td>
<td>1.408</td>
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<tr>
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<td>.</td>
<td>.</td>
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<tr>
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<td>0.766</td>
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<td>SUM_WTS</td>
<td>ROWPCT</td>
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<td>0.766</td>
<td>13.53</td>
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<td>1.896</td>
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<td>ROWPCT</td>
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<td>.</td>
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</tr>
<tr>
<td>Female</td>
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<td>75.93</td>
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<tr>
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<td>SUM_WTS</td>
<td>ROWPCT</td>
<td>22.93</td>
<td>0.564</td>
<td>21.79</td>
<td>24.07</td>
<td>0.927</td>
</tr>
<tr>
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<td>MARGINALSUM_WTS</td>
<td>ROWPCT</td>
<td>100.00</td>
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</tr>
<tr>
<td>MARGINAL</td>
<td>No</td>
<td>SUM_WTS</td>
<td>ROWPCT</td>
<td>80.83</td>
<td>0.485</td>
<td>79.85</td>
<td>81.81</td>
<td>1.408</td>
</tr>
<tr>
<td>MARGINAL</td>
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<td>SUM_WTS</td>
<td>ROWPCT</td>
<td>19.17</td>
<td>0.485</td>
<td>18.19</td>
<td>20.15</td>
<td>1.408</td>
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<tr>
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<td>MARGINALSUM_WTS</td>
<td>ROWPCT</td>
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</table>
ANALYSIS EXAMPLE 6.7 NCS-R DATA

WESVAR VERSION NUMBER :  4.3
TIME THE JOB EXECUTED :  15:19:49 04/05/2010
INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\final_ncsr_P1_JK2.var
TIME THE INPUT DATASET CREATED :  15:15:03 04/05/2010
FULL SAMPLE WEIGHT : NCSRWTS
REPLICATE WEIGHTS : RPL01...RPL42
VARIANCE ESTIMATION METHOD : JK2

OPTION COMPLETE :  ON
OPTION FUNCTION LOG : OFF
OPTION VARIABLE LABEL :  ON
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 :  42

ANALYSIS VARIABLES : None Specified.
COMPUTED STATISTIC : M_mde = MEAN(mde)
TABLE(S) :  SEX

NUMBER OF REPLICATES :  42
NUMBER OF OBSERVATIONS READ :  9282
WEIGHTED NUMBER OF OBSERVATIONS READ :  9282.000

<table>
<thead>
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<th>Sex</th>
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<th>ESTIMATE</th>
<th>STDERR</th>
<th>LOWER 95%</th>
<th>UPPER 95%</th>
<th>DEFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>M_mde</td>
<td>VALUE</td>
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<td>0.008</td>
<td>0.14</td>
<td>0.17</td>
<td>1.896</td>
</tr>
<tr>
<td>Female</td>
<td>M_mde</td>
<td>VALUE</td>
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<td>0.006</td>
<td>0.22</td>
<td>0.24</td>
<td>0.927</td>
</tr>
<tr>
<td></td>
<td>MARGINALM_mde</td>
<td>VALUE</td>
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<td>0.005</td>
<td>0.18</td>
<td>0.20</td>
<td>1.408</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LABEL</th>
<th>STATISTIC</th>
<th>EST_TYPE</th>
<th>ESTIMATE</th>
<th>STDERR</th>
<th>LOWER 95%</th>
<th>UPPER 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIFF_M_F</td>
<td>M_mde</td>
<td>VALUE</td>
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<td>0.009</td>
<td>-0.10</td>
<td>-0.06</td>
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</tbody>
</table>
ANALYSIS EXAMPLE 6.8 NCS-R DATA

WESVAR VERSION NUMBER : 4.3
TIME THE JOB EXECUTED : 15:09:22 04/05/2010
INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\final_ncsr_part2weight_JK2.var
TIME THE INPUT DATASET CREATED : 14:14:12 04/05/2010
FULL SAMPLE WEIGHT : NCSRWTLG
REPLICATE WEIGHTS : RPL01...RPL42
VARIANCE ESTIMATION METHOD : JK2

OPTION COMPLETE : ON
OPTION FUNCTION LOG : OFF
OPTION VARIABLE LABEL : ON
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 : 42
t VALUE : 2.018
SUBSET CRITERIA : AGE < 29

ANALYSIS VARIABLES : None Specified.
COMPUTED STATISTIC : None Specified.
TABLE(S) : ald*ED4CAT

FACTOR(S) : 1.00
NUMBER OF REPLICATES : 42
NUMBER OF OBSERVATIONS READ : 1275
WEIGHTED NUMBER OF OBSERVATIONS READ : 1266.557

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ANALYSIS EXAMPLE 6.9 NCS-R DATA

OPTIONS :  Intercept,
           No Standardized Coefficient,
           Degrees of Freedom = 42
   t VALUE : 2.018
STARTING VALUES :  INTERCEPT : 0.0000
                   SEX : 0.0000
   BY :  None Specified.
MISSING :  0  (UNWEIGHTED)
            0.000000  (WEIGHTED)
NONMISSING :  9282  (UNWEIGHTED)
               9282.000152  (WEIGHTED)
Success = records with dependent value equal to
           0 :  7453  (UNWEIGHTED)
            7502.536409  (WEIGHTED)
Failure = records with dependent value equal to
          1 :  1829  (UNWEIGHTED)
            1779.463743  (WEIGHTED)
ITERATIONS REQUIRED FOR FULL SAMPLE :  5
MAXIMUM ITERATIONS FOR REPPLICATE SAMPLE :  5
   -2 LOG LIKELIHOOD FOR FULL SAMPLE :  8979.02383
   -2 LOG LIKELIHOOD FOR MODEL CONTAINING INTERCEPT ONLY :  9072.13015

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<th>STANDARD ERROR</th>
<th>TEST FOR H0: PARAMETER=0</th>
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</table>

TEST  F VALUE  NUM. DF  DENOM. DF  PROB>F  NOTE
OVERALL FIT  58.978   1        42       0.000
SEX  58.978   1        42       0.000

<table>
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<th>PARAMETER</th>
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ANALYSIS EXAMPLE 6.10 NOT AVAILABLE IN WesVar