IVEware Analysis Example Replication C8

```
* IVEware Analysis Examples Replication for ASDA 2nd Edition
* Berglund April 2017
* Chapter 8 ;

ods graphics off ;
options nodate nonumber ls=125 ps=68 ;

*set options and location to call IVEware from SAS session ;
options set=srclib "C:\iveware_15feb2017\sas" sasautos=('!srclib' sasautos) mautosource ;
title ;
libname ncsr "P:\ASDA 2\Data sets\ncsr\" ;
data c8_ncsr ;
 set ncsr.ncsr_sub_13nov2015 ;
 * reverse coding for correct omitted group ;
 r_ag4cat=5-ag4cat ;
 r_mar3cat=4-mar3cat ;
 r_sex=3-sex ;
 r_ald=2-ald ;
 r_mde=2-mde ;
 r_ed4cat=5-ed4cat ;
run ;

proc format ;
 value af 1='18-29' 2='30-44' 3='45-59' 4='60+' ;
 value sf 1='M' 2='F' ;
 value edf 1='0-11' 2='12' 3='13-15' 4='16+' ;
 value mf 1='Currently Married' 2='Previously Married' 3='Never Married' ;
 value yn 1='Yes' 0='No' ;
run ;

ods rtf style=normalprinter bodytitle  ;

*Note: bad strata message, program aborts ;

%describe (setup=new, name="Example 8.1", dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5  "
;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 mean mde ;
 by ag4cat ;
run;

%describe (setup=new, name="Example 8.1", dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5  "
;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 table mde ;
 by sex ;
run;

*Note: bad strata message, program aborts ;
%describe (setup=new, name="Example 8.1", dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5  "
;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 table mde ;
 by ed4cat ;
run;

%describe (setup=new, name="Example 8.1", dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5  "
;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 table mde ;
 by mar3cat ;
run;


%regress (setup=new, name="Example 8.1 Numbers for 8.6 and 8.7 (8.8 not available in IVEware)  ", dir=P:\ASDA 2\Analysis Example
Replication\IVEware\IVEware files) ;
```

```
title Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.6, 8.7
;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 class r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 dependent r_mde ;
 predictor r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 link logistic ;
run;

ods text ="Margins Plot and GOF test are not available in IVEware" ;

data c8_ncsr1 ;
 set c8_ncsr ;
 * interactions variables created manually for models ;
 a1_m=(ag4cat=1)*(sex=1) ;
 a2_m=(ag4cat=2)*(sex=1) ;
 a3_m=(ag4cat=3)*(sex=1) ;
 a4_m=(ag4cat=4)*(sex=1) ;
 e1_m=(ed4cat=1)*(sex=1) ;
 e2_m=(ed4cat=2)*(sex=1) ;
 e3_m=(ed4cat=3)*(sex=1) ;
 e4_m=(ed4cat=4)*(sex=1) ;
 ald_m=(ald=1)*(sex=1) ;
 mar1_m=(mar3cat=1)*(sex=1) ;
 mar2_m=(mar3cat=2)*(sex=1) ;
 mar3_m=(mar3cat=3)*(sex=1) ;
run ;

%regress (setup=new, name="Example 8.1 Interaction Tests ", dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files)
;
title Example 8.1: Interaction Tests for Preliminary Model ;
 datain c8_ncsr1 ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 class r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 dependent r_mde ;
 predictor r_ag4cat sex r_ald r_ed4cat r_mar3cat a2_m a3_m a4_m ald_m e2_m e3_m e4_m mar2_m mar3_m ;
 link logistic ;
run;

%regress (setup=new, name="Example 8.1 Model Predicting Alcohol Dependence", dir=P:\ASDA 2\Analysis Example
Replication\IVEware\IVEware files) ;
title Example 8.1: Numbers for Tables 8.9 ;
 datain c8_ncsr1 ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 class r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 dependent r_ald ;
 predictor r_ag4cat sex r_ed4cat r_mar3cat ;
 link logistic ;
run;

ods text="Probit and CLOGLOG Models are Not Available in IVEware" ;

ods rtf close ;
```

Output IVEware Analysis Example Replication C8

```
*Note: bad strata message, causes program abort ;

%describe (setup=new, name="Example 8.1", dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5  "
;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 mean mde ;
 by ag4cat ;
run;
```

```
IVEware Setup Checker, Tue May 09 14:24:03 2017                                  1

Setup listing:

title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode
 in the NCS-R Data, Numbers for Table 8.5  " ;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 table mde ;
 by sex ;
run;
```

```
IVEware Design-Based Descriptive Statistics Procedure, Tue May 09 14:24:03 2017    1

"Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS

By variables:           SEX  Sex 1=Male 2=Female
Stratum variable:       SESTRAT  SAMPLING ERROR STRATUM
Cluster variable:       SECLUSTR  SAMPLING ERROR CLUSTER
Weight variable:        NCSRWTLG  NCSR sample part 2 weight

Analysis description:

         5  Variables
        42  Strata
        84  Secus

    Strata  Model
        42  Multiple PSU
         0  Paired Selection
         0  Successive Differences

      5692  Cases Read
```

"Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5 "

By Condition
SEX
1

Problem 1

Degrees of freedom
42

Factor	Covariance of denominator
None	0.04535

Table mde	Number of Cases	Sum of Weights	Weighted Proportion	Standard Error
0	1779	2263.942	0.84711	0.00914
1	603	408.6142	0.15289	0.00914

	Lower Bound	Upper Bound	T Test	Prob > |T|
0	0.82867	0.86555	92.70577	0.00000
1	0.13445	0.17133	16.73227	0.00000

	Unweighted Proportion	Bias	Design Effect
0	0.74685	-11.83510	1.53496
1	0.25315	65.57279	1.53496

By Condition
SEX
2

Problem 2

Degrees of freedom
42

Factor	Covariance of denominator
None	0.05119

Table mde	Number of Cases	Sum of Weights	Weighted Proportion	Standard Error
0	2117	2336.535	0.77383	0.00673
1	1193	682.9091	0.22617	0.00673

	Lower Bound	Upper Bound	T Test	Prob > |T|
0	0.76025	0.78741	115.02296	0.00000
1	0.21259	0.23975	33.61826	0.00000

"Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5 "

	Unweighted Proportion	Bias	Design Effect
0	0.63958	-17.34910	0.85573
1	0.36042	59.35897	0.85573

```
*Note: bad strata message, program aborts ;
%describe (setup=new, name="Example 8.1", dir=P:\ASDA 2\Analysis Example Replication\IVEware\IVEware files) ;
title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5  "
;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 table mde ;
 by ed4cat ;
run;
```

```
IVEware Setup Checker, Tue May 09 14:24:04 2017                                    1

Setup listing:

title "Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode
 in the NCS-R Data, Numbers for Table 8.5  " ;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 table mde ;
 by mar3cat ;
run;
```

```
IVEware Design-Based Descriptive Statistics Procedure, Tue May 09 14:24:05 2017    1

"Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS

By variables:           MAR3CAT  Marital Status 1=Married 2=Previously Married 3=Never Married
Stratum variable:       SESTRAT  SAMPLING ERROR STRATUM
Cluster variable:       SECLUSTR  SAMPLING ERROR CLUSTER
Weight variable:        NCSRWTLG  NCSR sample part 2 weight

Analysis description:

         5  Variables
        42  Strata
        84  Secus

    Strata  Model
        42  Multiple PSU
         0  Paired Selection
         0  Successive Differences

      5692  Cases Read
```

"Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5 "

By Condition
MAR3CAT
1

Problem 1

Degrees of freedom
42

Factor	Covariance of denominator
None	0.05107

Table mde	Number of Cases	Sum of Weights	Weighted Proportion	Standard Error
0	2316	2632.704	0.82674	0.00742
1	920	551.742	0.17326	0.00742

	Lower Bound	Upper Bound	T Test	Prob > |T|
0	0.81177	0.84171	111.42600	0.00000
1	0.15829	0.18823	23.35181	0.00000

	Unweighted Proportion	Bias	Design Effect
0	0.71570	-13.43110	1.24327
1	0.28430	64.08812	1.24327

By Condition
MAR3CAT
2

Problem 2

Degrees of freedom
42

Factor	Covariance of denominator
None	0.05023

Table mde	Number of Cases	Sum of Weights	Weighted Proportion	Standard Error
0	750	901.3201	0.76098	0.01449
1	489	283.1011	0.23902	0.01449

	Lower Bound	Upper Bound	T Test	Prob > |T|
0	0.73173	0.79023	52.50353	0.00000
1	0.20977	0.26827	16.49116	0.00000

"Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NCS-R Data, Numbers for Table 8.5 "

	Unweighted Proportion	Bias	Design Effect
0	0.60533	-20.45423	1.42982
1	0.39467	65.12094	1.42982

By Condition
MAR3CAT
3

Problem 3

Degrees of freedom
42

Factor	Covariance of denominator
None	0.06665

Table mde	Number of Cases	Sum of Weights	Weighted Proportion	Standard Error
0	830	1066.453	0.80601	0.01155
1	387	256.6802	0.19399	0.01155

	Lower Bound	Upper Bound	T Test	Prob > |T|
0	0.78270	0.82931	69.78806	0.00000
1	0.17069	0.21730	16.79700	0.00000

	Unweighted Proportion	Bias	Design Effect
0	0.68200	-15.38461	1.03734
1	0.31800	63.91986	1.03734

```
IVEware Setup Checker, Tue May 09 14:24:05 2017                                  1

Setup listing:

title Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in
 the NCS-R Data, Numbers for Table 8.6, 8.7 ;
 datain c8_ncsr ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 class r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 dependent r_mde ;
 predictor r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 link logistic ;
run;
```

```
IVEware Jackknife Regression Procedure, Tue May 09 14:24:06 2017                 1

Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NC

Regression type:        Logistic
Dependent variable:     r_mde
Predictors:             r_ag4cat
                        SEX  Sex 1=Male 2=Female
                        r_ald
                        r_ed4cat
                        r_mar3cat
Cat. var. ref. codes:   SEX  2
                        r_ag4cat  4
                        r_mar3cat  3
                        r_ald  2
                        r_mde  2
                        r_ed4cat  4
Stratum variable:       SESTRAT  SAMPLING ERROR STRATUM
Cluster variable:       SECLUSTR  SAMPLING ERROR CLUSTER
Weight variable:        NCSRWTLG  NCSR sample part 2 weight

Valid cases                5692
Sum weights          5692.000478
Replicates                   42

Degr freedom                 42

-2 LogLike           5268.526425

Variable                 Estimate         Std Error            T Test        Prob > |T|
Intercept               -1.5830767         0.1223398          -12.94000            0.00000
r_ag4cat.1              -0.6757863         0.1407557           -4.80113            0.00002
r_ag4cat.2               0.2064465         0.0918258            2.24824            0.02987
r_ag4cat.3               0.2556185         0.0941162            2.71599            0.00955
SEX                     -0.5773452         0.0790030           -7.30789            0.00000
r_ald                    1.4236762         0.1592221            8.94145            0.00000
r_ed4cat.1               0.1629254         0.1120799            1.45365            0.15347
r_ed4cat.2               0.2305111         0.0942888            2.44473            0.01877
r_ed4cat.3               0.0792550         0.1003241            0.78999            0.43397
r_mar3cat.1              0.1155794         0.1082687            1.06752            0.29183
r_mar3cat.2              0.4864225         0.0854730            5.69095            0.00000

Variable                    Odds             95% Confidence Interval
                           Ratio             Lower              Upper
Intercept
r_ag4cat.1               0.5087563         0.3829532          0.6758865
r_ag4cat.2               1.2293019         1.0213597          1.4795798
r_ag4cat.3               1.2912600         1.0678898          1.5613524
SEX                      0.5613867         0.4786530          0.6584208
r_ald                    4.1523575         3.0112447          5.7258955
r_ed4cat.1               1.1769489         0.9386988          1.4756690
r_ed4cat.2               1.2592434         1.0410490          1.5231694
r_ed4cat.3               1.0824803         0.8840807          1.3254034
r_mar3cat.1              1.1225236         0.9022033          1.3966467
r_mar3cat.2              1.6264870         1.3687957          1.9326917
```

IVEware Jackknife Regression Procedure, Tue May 09 14:24:12 2017 2

Example 8.1: Examining Predictors of a Lifetime Major Depressive Episode in the NC

Variable	Design Effect	SRS Estimate	% Diff SRS v Est
Intercept	1.21741	-1.0248795	-35.26027
r_ag4cat.1	1.58217	-0.3924731	-41.92349
r_ag4cat.2	0.98084	0.2273644	10.13236
r_ag4cat.3	1.19952	0.2939657	15.00176
SEX	1.63252	-0.5432110	-5.91227
r_ald	2.35892	0.8256041	-42.00900
r_ed4cat.1	1.26256	0.1589701	-2.42771
r_ed4cat.2	0.96931	0.1941795	-15.76131
r_ed4cat.3	1.09843	0.1257221	58.62986
r_mar3cat.1	1.69379	0.1903295	64.67425
r_mar3cat.2	1.32065	0.5092616	4.69532

Margins Plot and GOF test are not available in IVEware

```
IVEware Setup Checker, Tue May 09 14:24:13 2017                                  1

Setup listing:

title Example 8.1: Interaction Tests for Preliminary Model ;
 datain c8_ncsr1 ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 class r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 dependent r_mde ;
 predictor r_ag4cat sex r_ald r_ed4cat r_mar3cat a2_m a3_m a4_m ald_m e2_m e3_m
 e4_m mar2_m mar3_m ;
 link logistic ;
run;
```

```
IVEware Jackknife Regression Procedure, Tue May 09 14:24:13 2017                 1

Example 8.1: Interaction Tests for Preliminary Model

Regression type:        Logistic
Dependent variable:     r_mde
Predictors:             r_ag4cat
                        SEX  Sex 1=Male 2=Female
                        r_ald
                        r_ed4cat
                        r_mar3cat
                        a2_m
                        a3_m
                        a4_m
                        ald_m
                        e2_m
                        e3_m
                        e4_m
                        mar2_m
                        mar3_m
Cat. var. ref. codes:   SEX  2
                        r_ag4cat  4
                        r_mar3cat  3
                        r_ald  2
                        r_mde  2
                        r_ed4cat  4
Stratum variable:       SESTRAT  SAMPLING ERROR STRATUM
Cluster variable:       SECLUSTR  SAMPLING ERROR CLUSTER
Weight variable:        NCSRWTLG  NCSR sample part 2 weight

Valid cases                5692
Sum weights          5692.000478
Replicates                   42

Degr freedom                 42

-2 LogLike           5264.857536

Variable                Estimate         Std Error            T Test        Prob > |T|
Intercept             -1.5998893         0.1346657         -11.88045            0.00000
r_ag4cat.1            -0.6455558         0.1748696          -3.69164            0.00064
r_ag4cat.2             0.2146410         0.1040597           2.06267            0.04536
r_ag4cat.3             0.2204041         0.1134640           1.94250            0.05880
SEX                   -0.5464415         0.3737739          -1.46196            0.15120
r_ald                  1.5531400         0.2145938           7.23758            0.00000
r_ed4cat.1             0.2422184         0.1508935           1.60523            0.11594
r_ed4cat.2             0.2973241         0.1167067           2.54762            0.01460
r_ed4cat.3             0.1305184         0.0836146           1.56095            0.12604
r_mar3cat.1            0.0173370         0.1303200           0.13303            0.89480
r_mar3cat.2            0.4177856         0.1103824           3.78489            0.00048
a2_m                   0.0967431         0.2009836           0.48135            0.63277
a3_m                   0.0026370         0.2141225           0.01232            0.99023
a4_m                  -0.0378099         0.3032617          -0.12468            0.90137
ald_m                 -0.2004168         0.2450479          -0.81787            0.41805
e2_m                  -0.1377802         0.2825224          -0.48768            0.62831
```

Example 8.1: Interaction Tests for Preliminary Model

Variable	Estimate	Std Error	T Test	Prob > |T|
e3_m	-0.1687904	0.2810361	-0.60060	0.55133
e4_m	-0.1940178	0.3579164	-0.54208	0.59063
mar2_m	0.1825040	0.2124054	0.85923	0.39509
mar3_m	0.2318977	0.2115482	1.09619	0.27924

Variable	Odds Ratio	95% Confidence Interval Lower	Upper
Intercept			
r_ag4cat.1	0.5243710	0.3684477	0.7462794
r_ag4cat.2	1.2394169	1.0046512	1.5290423
r_ag4cat.3	1.2465803	0.9914615	1.5673452
SEX	0.5790065	0.2723284	1.2310452
r_ald	4.7262875	3.0650779	7.2878389
r_ed4cat.1	1.2740724	0.9396043	1.7276002
r_ed4cat.2	1.3462516	1.0637505	1.7037768
r_ed4cat.3	1.1394189	0.9624988	1.3488593
r_mar3cat.1	1.0174881	0.7821889	1.3235704
r_mar3cat.2	1.5185951	1.2153417	1.8975167
a2_m	1.1015773	0.7342854	1.6525899
a3_m	1.0026404	0.6508481	1.5445813
a4_m	0.9628960	0.5221419	1.7757024
ald_m	0.8183896	0.4991030	1.3419302
e2_m	0.8712902	0.4926617	1.5409085
e3_m	0.8446859	0.4790534	1.4893837
e4_m	0.8236432	0.3999878	1.6960220
mar2_m	1.2002190	0.7818076	1.8425578
mar3_m	1.2609908	0.8228156	1.9325081

Variable	Design Effect	SRS Estimate	% Diff SRS v Est
Intercept	0.95934	-0.9594586	-40.02969
r_ag4cat.1	1.64672	-0.3082472	-52.25088
r_ag4cat.2	0.81072	0.2225707	3.69440
r_ag4cat.3	1.11290	0.2764957	25.44948
SEX	2.77084	-0.6961233	27.39209
r_ald	1.74107	0.9021342	-41.91546
r_ed4cat.1	1.38489	0.0975990	-59.70619
r_ed4cat.2	0.91016	0.1761099	-40.76839
r_ed4cat.3	0.46659	0.1042057	-20.16014
r_mar3cat.1	1.51673	0.1465917	745.54464
r_mar3cat.2	1.48447	0.3672797	-12.08895
a2_m	1.25508	0.0459198	-52.53431
a3_m	1.21603	0.0235376	792.60523
a4_m	1.56454	-0.2112388	458.68654
ald_m	1.33110	-0.1348661	-32.70719
e2_m	2.04863	0.0276108	-120.03975
e3_m	2.02725	0.0297750	-117.64024
e4_m	3.06469	0.1479616	-176.26186
mar2_m	1.78053	0.4219446	131.19743
mar3_m	1.50890	0.1106629	-52.27943

```
IVEware Setup Checker, Tue May 09 14:24:23 2017                                  1

Setup listing:

title Example 8.1: Numbers for Tables 8.9 ;
 datain c8_ncsr1 ;
 stratum sestrat ; cluster seclustr ; weight ncsrwtlg ;
 class r_ag4cat sex r_ald r_ed4cat r_mar3cat ;
 dependent r_ald ;
 predictor r_ag4cat sex r_ed4cat r_mar3cat ;
 link logistic ;
run;
```

```
IVEware Jackknife Regression Procedure, Tue May 09 14:24:24 2017                 1

Example 8.1: Numbers for Tables 8.9

Regression type:        Logistic
Dependent variable:     r_ald
Predictors:             r_ag4cat
                        SEX  Sex 1=Male 2=Female
                        r_ed4cat
                        r_mar3cat
Cat. var. ref. codes:   SEX  2
                        r_ag4cat  4
                        r_mar3cat  3
                        r_ald  2
                        r_ed4cat  4
Stratum variable:       SESTRAT  SAMPLING ERROR STRATUM
Cluster variable:       SECLUSTR  SAMPLING ERROR CLUSTER
Weight variable:        NCSRWTLG  NCSR sample part 2 weight

Valid cases                5692
Sum weights          5692.000478
Replicates                   42

Degr freedom                 42

-2 LogLike           2268.902472

Variable                 Estimate         Std Error            T Test        Prob > |T|
Intercept               -3.1243207         0.2277487          -13.71828            0.00000
r_ag4cat.1              -1.1203348         0.2113458           -5.30096            0.00000
r_ag4cat.2              -0.0507070         0.1441728           -0.35171            0.72681
r_ag4cat.3               0.1462759         0.1769574            0.82662            0.41313
SEX                      0.9979891         0.1185340            8.41943            0.00000
r_ed4cat.1              -0.7362285         0.2005004           -3.67196            0.00067
r_ed4cat.2              -0.2644809         0.1780030           -1.48582            0.14479
r_ed4cat.3              -0.2684385         0.1996438           -1.34459            0.18598
r_mar3cat.1              0.0653150         0.1694598            0.38543            0.70186
r_mar3cat.2              0.5178315         0.1419002            3.64926            0.00072

Variable                    Odds             95% Confidence Interval
                           Ratio             Lower              Upper
Intercept
r_ag4cat.1               0.3261706         0.2129182          0.4996625
r_ag4cat.2               0.9505571         0.7105904          1.2715606
r_ag4cat.3               1.1575155         0.8099052          1.6543197
SEX                      2.7128210         2.1356652          3.4459511
r_ed4cat.1               0.4789167         0.3195460          0.7177722
r_ed4cat.2               0.7676043         0.5359550          1.0993765
r_ed4cat.3               0.7645724         0.5110257          1.1439171
r_mar3cat.1              1.0674953         0.7583062          1.5027520
r_mar3cat.2              1.6783841         1.2604460          2.2349018

Variable                  Design             SRS              % Diff
                          Effect           Estimate          SRS v Est
Intercept                1.64021         -2.5769627          -17.51926
```

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Example 8.1: Numbers for Tables 8.9

Variable	Design Effect	SRS Estimate	% Diff SRS v Est
r_ag4cat.1	0.97451	-0.9094689	-18.82169
r_ag4cat.2	0.81282	-0.0690219	36.11906
r_ag4cat.3	1.53872	0.2406087	64.48968
SEX	1.30217	0.9141335	-8.40245
r_ed4cat.1	1.47219	-0.8559178	16.25708
r_ed4cat.2	1.51037	-0.3836098	45.04254
r_ed4cat.3	1.87792	-0.4356781	62.30092
r_mar3cat.1	1.44755	0.0752636	15.23171
r_mar3cat.2	1.23332	0.4472200	-13.63600

Probit and CLOGLOG Models are Not Available in IVEware