CHAPTER 9 ANALYSIS EXAMPLES REPLICATION WesVar 4.3

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 GENERALIZED LINEAR MODELS USING WesVar 4.3

WesVar uses repeated replication variance estimation methods exclusively and as a result does not offer the Taylor Series Linearization approach.

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 the output file. 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 Regression menus can perform only some of the analysis examples in Chapter 9: Multinomial logit regression is an option but Ordinal logit, Poisson, Negative Binomial and the Zero-Inflated versions of Poisson and Negative Binomial regression are not available.

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 of Repeated Replication variance estimation methods (JK1, JK2, BRR, etc.). For these examples, the JK2 method was used throughout but other methods are available. As in the previous regression examples, use of the reverse coded classification variables is used to match the default reference category of Stata (the lowest category). See the WesVar User's Guide for details.

Summary Information of Table Request EX 9.1 BIVARIATE TABLES

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 WESVAR VERSION NUMBER :      4.3
 TIME THE JOB EXECUTED :      10:07:41 04/06/2010
 INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\final_ncsr_part2weight_JK2.var
 TIME THE INPUT DATASET CREATED :     10:07:11 04/06/2010
 FULL SAMPLE WEIGHT : NCSRWTLG
 REPLICATE WEIGHTS :  RPL01...RPL42
 VARIANCE ESTIMATION METHOD : JK2

 OPTION COMPLETE :     ON
 OPTION FUNCTION LOG : ON
 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

 ANALYSIS VARIABLES : None Specified.
 COMPUTED STATISTIC : None Specified.
 TABLE(S) :    WKSTAT3C*SEX
       WKSTAT3C*ald
       WKSTAT3C*mde
       WKSTAT3C*ED4CAT
       WKSTAT3C*ag4cat
       WKSTAT3C*MAR3CAT

 FACTOR(S) :   1.00

 NUMBER OF REPLICATES :       42
 NUMBER OF OBSERVATIONS READ :       5692
 WEIGHTED NUMBER OF OBSERVATIONS READ :      5692.000
```

Work Status 3 categories	Sex	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	LOWER 95%	UPPER 95%	DEFF
Employed	Male	SUM_WTS	PERCENT	33.85	0.999	31.84	35.87	2.530
Employed	Female	SUM_WTS	PERCENT	30.93	0.912	29.09	32.77	2.211
Employed	MARGINAL	SUM_WTS	PERCENT	64.78	1.039	62.69	66.88	2.686
Unemployed	Male	SUM_WTS	PERCENT	1.31	0.244	0.82	1.80	2.610
Unemployed	Female	SUM_WTS	PERCENT	3.81	0.424	2.95	4.66	2.783
Unemployed	MARGINAL	SUM_WTS	PERCENT	5.11	0.514	4.08	6.15	3.088
NLF	Male	SUM_WTS	PERCENT	11.88	0.614	10.64	13.12	2.046
NLF	Female	SUM_WTS	PERCENT	18.22	0.886	16.44	20.01	2.992
NLF	MARGINAL	SUM_WTS	PERCENT	30.10	0.941	28.20	32.00	2.392
MARGINAL	Male	SUM_WTS	PERCENT	47.03	1.019	44.98	49.09	2.365
MARGINAL	Female	SUM_WTS	PERCENT	52.97	1.019	50.91	55.02	2.365
MARGINAL	MARGINAL	SUM_WTS	PERCENT	100.00	.	.	.	.

CHI-SQUARE	D.F.	VALUE	PROB
PEARSON	2.00	133.368	0.000
RS2	2.00	55.631	0.000
RS3	1.92	53.351	0.000

Work Status 3 categories	ald	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	LOWER 95%	UPPER 95%	DEFF
Employed	No	SUM_WTS	PERCENT	61.11	1.035	59.03	63.20	2.558
Employed	Yes	SUM_WTS	PERCENT	3.67	0.288	3.09	4.25	1.336
Employed MARGINAL		SUM_WTS	PERCENT	64.78	1.039	62.69	66.88	2.686
Unemployed	No	SUM_WTS	PERCENT	4.99	0.504	3.97	6.01	3.047
Unemployed	Yes	SUM_WTS	PERCENT	0.13	0.043	0.04	0.21	0.829
Unemployed MARGINAL		SUM_WTS	PERCENT	5.11	0.514	4.08	6.15	3.088
NLF	No	SUM_WTS	PERCENT	28.47	0.888	26.68	30.26	2.200
NLF	Yes	SUM_WTS	PERCENT	1.63	0.160	1.31	1.96	0.903
NLF MARGINAL		SUM_WTS	PERCENT	30.10	0.941	28.20	32.00	2.392
MARGINAL	No	SUM_WTS	PERCENT	94.57	0.328	93.91	95.23	1.189
MARGINAL	Yes	SUM_WTS	PERCENT	5.43	0.328	4.77	6.09	1.189
MARGINAL MARGINAL		SUM_WTS	PERCENT	100.00	.	.	.	.

CHI-SQUARE	D.F.	VALUE	PROB
PEARSON	2.00	5.351	0.069
RS2	2.00	7.528	0.023
RS3	1.69	6.346	0.030

Work Status	mde	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	LOWER 95%	UPPER 95%	DEFF
Employed	No	SUM_WTS	PERCENT	51.75	1.079	49.57	53.92	2.647
Employed	Yes	SUM_WTS	PERCENT	13.04	0.553	11.92	14.16	1.534
Employed	MARGINAL	SUM_WTS	PERCENT	64.78	1.039	62.69	66.88	2.686
Unemployed	No	SUM_WTS	PERCENT	4.38	0.454	3.46	5.30	2.798
Unemployed	Yes	SUM_WTS	PERCENT	0.73	0.096	0.54	0.93	0.722
Unemployed	MARGINAL	SUM_WTS	PERCENT	5.11	0.514	4.08	6.15	3.088
NLF	No	SUM_WTS	PERCENT	24.62	0.901	22.81	26.44	2.483
NLF	Yes	SUM_WTS	PERCENT	5.48	0.289	4.90	6.06	0.913
NLF	MARGINAL	SUM_WTS	PERCENT	30.10	0.941	28.20	32.00	2.392
MARGINAL	No	SUM_WTS	PERCENT	80.75	0.650	79.44	82.06	1.545
MARGINAL	Yes	SUM_WTS	PERCENT	19.25	0.650	17.94	20.56	1.545
MARGINAL	MARGINAL	SUM_WTS	PERCENT	100.00	.	.	.	.

CHI-SQUARE	D.F.	VALUE	PROB
PEARSON	2.00	7.537	0.023
RS2	2.00	9.137	0.010
RS3	1.76	8.058	0.014

Work Status	Years of education	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	LOWER 95%	UPPER 95%	DEFF
Employed	0-11	SUM_WTS	PERCENT	7.06	0.512	6.03	8.10	2.269
Employed	12	SUM_WTS	PERCENT	20.15	1.027	18.07	22.22	3.722
Employed	13-15	SUM_WTS	PERCENT	19.64	0.650	18.33	20.95	1.518
Employed	16+	SUM_WTS	PERCENT	17.93	0.816	16.29	19.58	2.572
Employed	MARGINAL	SUM_WTS	PERCENT	64.78	1.039	62.69	66.88	2.686
Unemployed	0-11	SUM_WTS	PERCENT	1.57	0.321	0.92	2.22	3.791
Unemployed	12	SUM_WTS	PERCENT	1.93	0.243	1.44	2.42	1.771
Unemployed	13-15	SUM_WTS	PERCENT	1.01	0.151	0.71	1.32	1.282
Unemployed	16+	SUM_WTS	PERCENT	0.60	0.108	0.38	0.82	1.115
Unemployed	MARGINAL	SUM_WTS	PERCENT	5.11	0.514	4.08	6.15	3.088
NLF	0-11	SUM_WTS	PERCENT	7.87	0.553	6.75	8.98	2.398
NLF	12	SUM_WTS	PERCENT	10.54	0.657	9.22	11.87	2.601
NLF	13-15	SUM_WTS	PERCENT	7.01	0.572	5.86	8.17	2.852
NLF	16+	SUM_WTS	PERCENT	4.68	0.468	3.73	5.62	2.786
NLF	MARGINAL	SUM_WTS	PERCENT	30.10	0.941	28.20	32.00	2.392
MARGINAL	0-11	SUM_WTS	PERCENT	16.50	0.874	14.74	18.27	3.148
MARGINAL	12	SUM_WTS	PERCENT	32.62	1.121	30.35	34.88	3.250
MARGINAL	13-15	SUM_WTS	PERCENT	27.67	0.755	26.14	29.19	1.616
MARGINAL	16+	SUM_WTS	PERCENT	23.21	1.049	21.10	25.33	3.506
MARGINAL	MARGINAL	SUM_WTS	PERCENT	100.00	.	.	.	.

CHI-SQUARE	D.F.	VALUE	PROB
PEARSON	6.00	328.733	0.000
RS2	6.00	137.998	0.000
RS3	4.37	100.698	0.000

Work Status	ag4cat	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	LOWER 95%	UPPER 95%	DEFF
Employed	18-29	SUM_WTS	PERCENT	16.44	0.838	14.75	18.14	2.905
Employed	30-44	SUM_WTS	PERCENT	23.27	0.800	21.66	24.89	2.035
Employed	45-59	SUM_WTS	PERCENT	20.25	0.979	18.27	22.22	3.367
Employed	60+	SUM_WTS	PERCENT	4.82	0.360	4.09	5.55	1.605
Employed	MARGINAL	SUM_WTS	PERCENT	64.78	1.039	62.69	66.88	2.686
Unemployed	18-29	SUM_WTS	PERCENT	0.68	0.149	0.38	0.98	1.857
Unemployed	30-44	SUM_WTS	PERCENT	0.84	0.186	0.47	1.22	2.338
Unemployed	45-59	SUM_WTS	PERCENT	0.74	0.123	0.50	0.99	1.164
Unemployed	60+	SUM_WTS	PERCENT	2.84	0.414	2.01	3.68	3.527
Unemployed	MARGINAL	SUM_WTS	PERCENT	5.11	0.514	4.08	6.15	3.088
NLF	18-29	SUM_WTS	PERCENT	6.33	0.506	5.31	7.35	2.449
NLF	30-44	SUM_WTS	PERCENT	4.70	0.421	3.85	5.55	2.249
NLF	45-59	SUM_WTS	PERCENT	5.51	0.455	4.60	6.43	2.255
NLF	60+	SUM_WTS	PERCENT	13.56	0.850	11.85	15.28	3.497
NLF	MARGINAL	SUM_WTS	PERCENT	30.10	0.941	28.20	32.00	2.392
MARGINAL	18-29	SUM_WTS	PERCENT	23.45	1.116	21.20	25.71	3.942
MARGINAL	30-44	SUM_WTS	PERCENT	28.82	0.873	27.05	30.58	2.112
MARGINAL	45-59	SUM_WTS	PERCENT	26.51	1.076	24.33	28.68	3.373
MARGINAL	60+	SUM_WTS	PERCENT	21.22	1.011	19.18	23.26	3.470
MARGINAL	MARGINAL	SUM_WTS	PERCENT	100.00	.	.	.	.

CHI-SQUARE	D.F.	VALUE	PROB
PEARSON	6.00	1244.669	0.000
RS2	6.00	464.305	0.000
RS3	3.06	237.156	0.000

Work Status

	Marital Status-3 categories	STATISTICEST_TYPE	ESTIMATE	STDERROR	LOWER 95%	UPPER 95%	DEFF
Employed	Married	SUM_WTS PERCENT	37.50	1.170	35.14	39.86	3.314
Employed	Previously Married	SUM_WTS PERCENT	11.20	0.533	10.12	12.27	1.621
Employed	Never Married	SUM_WTS PERCENT	16.09	0.812	14.45	17.72	2.773
Employed	MARGINAL	SUM_WTS PERCENT	64.78	1.039	62.69	66.88	2.686
Unemployed	Married	SUM_WTS PERCENT	3.61	0.421	2.76	4.46	2.893
Unemployed	Previously Married	SUM_WTS PERCENT	1.41	0.239	0.93	1.89	2.329
Unemployed	Never Married	SUM_WTS PERCENT	0.09	0.031	0.03	0.15	0.587
Unemployed	MARGINAL	SUM_WTS PERCENT	5.11	0.514	4.08	6.15	3.088
NLF	Married	SUM_WTS PERCENT	14.95	0.630	13.68	16.22	1.773
NLF	Previously Married	SUM_WTS PERCENT	8.17	0.541	7.08	9.26	2.213
NLF	Never Married	SUM_WTS PERCENT	6.98	0.616	5.73	8.22	3.318
NLF	MARGINAL	SUM_WTS PERCENT	30.10	0.941	28.20	32.00	2.392
MARGINAL	Married	SUM_WTS PERCENT	56.07	1.214	53.62	58.52	3.397
MARGINAL	Previously Married	SUM_WTS PERCENT	20.77	0.699	19.36	22.19	1.687
MARGINAL	Never Married	SUM_WTS PERCENT	23.16	1.139	20.86	25.45	4.138
MARGINAL	MARGINAL	SUM_WTS PERCENT	100.00	.	.	.	.

CHI-SQUARE	D.F.	VALUE	PROB
PEARSON	4.00	148.614	0.000
RS2	4.00	74.701	0.000
RS3	3.35	62.660	0.000

ANALYSIS EXAMPLE: MULTINOMIAL LOGIT (TABLES 9.2 AND 9.3 OF ASDA)

Summary Information of Regression
 WESVAR VERSION NUMBER : 4.3
 TIME THE JOB EXECUTED : 10:07:08 03/28/2010
 INPUT DATASET NAME : C:\Program Files\Westat\WesVar\Data\final_ncsr_part2weight_JK2.var
 TIME THE INPUT DATASET CREATED : 16:17:19 03/27/2010
 FULL SAMPLE WEIGHT : NCSRWTLG
 REPLICATE WEIGHTS : RPL01...RPL42
 VARIANCE ESTIMATION METHOD : JK2

 TYPE OF ANALYSIS : MULTINOMIAL
 CONVERGENCE CRITERION : 1e-06
 MAXIMUM NUMBER OF ITERATIONS : 25
 VALUE OF ALPHA (CONFIDENCE LEVEL %) : 0.05000 (95.00000 %)
 OPTION OUTPUT REPLICATE COEFFICIENTS : OFF
 OPTION OUTPUT ITERATION HISTORY : OFF

 MODEL(S): WKSTAT_REV = SEXM ALD MDE ED12 ED1315 ED16 AGECAT_REV[4] MAR3CAT_REV[3]

 NUMBER OF REPLICATES : 42
 NUMBER OF OBSERVATIONS READ : 5692
 WEIGHTED NUMBER OF OBSERVATIONS READ : 5692.000

 MODEL : WKSTAT_REV = SEXM ALD MDE ED12 ED1315 ED16 AGECAT_REV[4] MAR3CAT_REV[3]
  Class Variable Index :
  AGECAT_REV.1 : 1
  AGECAT_REV.2 : 2
  AGECAT_REV.3 : 3
  AGECAT_REV.4 : 4
  MAR3CAT_REV.1 : 1
  MAR3CAT_REV.2 : 2
  MAR3CAT_REV.3 : 3

MODEL : WKSTAT_REV = SEXM ALD MDE ED12 ED1315 ED16 AGECAT_REV[4] MAR3CAT_REV[3]

 OPTIONS : Intercept,
  No Standardized Coefficient,
  Degrees of Freedom = 42
  t VALUE : 2.018
 STARTING VALUES :
  WKSTAT_REV.1 INTERCEPT : 0.0000
  WKSTAT_REV.1 SEXM : 0.0000
  WKSTAT_REV.1 ALD : 0.0000
  WKSTAT_REV.1 MDE : 0.0000
  WKSTAT_REV.1 ED12 : 0.0000
  WKSTAT_REV.1 ED1315 : 0.0000
  WKSTAT_REV.1 ED16 : 0.0000
  WKSTAT_REV.1 AGECAT_REV.1 : 0.0000
  WKSTAT_REV.1 AGECAT_REV.2 : 0.0000
  WKSTAT_REV.1 AGECAT_REV.3 : 0.0000
  WKSTAT_REV.1 MAR3CAT_REV.1 : 0.0000
  WKSTAT_REV.1 MAR3CAT_REV.2 : 0.0000
  WKSTAT_REV.2 INTERCEPT : 0.0000
  WKSTAT_REV.2 SEXM : 0.0000
  WKSTAT_REV.2 ALD : 0.0000
  WKSTAT_REV.2 MDE : 0.0000
  WKSTAT_REV.2 ED12 : 0.0000
  WKSTAT_REV.2 ED1315 : 0.0000
  WKSTAT_REV.2 ED16 : 0.0000

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   WKSTAT_REV.2       AGECAT_REV.1 : 0.0000
   WKSTAT_REV.2       AGECAT_REV.2 : 0.0000
   WKSTAT_REV.2       AGECAT_REV.3 : 0.0000
   WKSTAT_REV.2       MAR3CAT_REV.1 : 0.0000
   WKSTAT_REV.2       MAR3CAT_REV.2 : 0.0000
 TEST(S) :     TEST1 :  ALD@1=0, ALD@2=0
       TEST2 :  MDE@1=0, MDE@2=0
       TEST3 :  SEXM@1=0, SEXM@2=0
       TEST4 :  ED12@1=0, ED12@2=0, ED1315@1=0, ED1315@2=0, ED16@1=0, ED16@2=0
       TEST5 :  AGECAT_REV.1@1=0, AGECAT_REV.1@2=0, AGECAT_REV.2@1=0, AGECAT_REV.2@2=0, AGECAT_REV.3@1=0, AGECAT_REV.3@2=0
       TEST6 :  MAR3CAT_REV.1@1=0, MAR3CAT_REV.1@2=0, MAR3CAT_REV.2@1=0, MAR3CAT_REV.2@2=0
       TEST7 :  ED12@1-ED12@2=0, ed1315@1-ed1315@2=0, ed16@1-ed16@2=0
 ODDS RATIO(S) :       OddsRatio1 :  AGECAT_REV.1@1
       OddsRatio2 :  AGECAT_REV.1@2
       OddsRatio3 :  AGECAT_REV.2@1
       OddsRatio4 :  AGECAT_REV.2@2
       OddsRatio5 :  AGECAT_REV.3@1
       OddsRatio6 :  AGECAT_REV.3@2
       OddsRatio7 :  ALD@1
       OddsRatio8 :  ALD@2
       OddsRatio9 :  ED12@1
       OddsRatio10 :  ED12@2
       OddsRatio11 :  ED1315@1
       OddsRatio12 :  ED1315@2
       OddsRatio13 :  ED16@1
       OddsRatio14 :  ED16@2
       OddsRatio15 :  MAR3CAT_REV.1@1
       OddsRatio16 :  MAR3CAT_REV.1@2
       OddsRatio17 :  MAR3CAT_REV.2@1
       OddsRatio18 :  MAR3CAT_REV.2@2
       OddsRatio19 :  MDE@1
       OddsRatio20 :  MDE@2
       OddsRatio21 :  SEXM@1
       OddsRatio22 :  SEXM@2
BY :   None Specified.
MISSING :      13           (UNWEIGHTED)
       24.815480    (WEIGHTED)
NONMISSING :   5679         (UNWEIGHTED)
       5667.184998  (WEIGHTED)
 Records in category 1 :      1630       (UNWEIGHTED)
       1705.895943 (WEIGHTED)
 Records in category 2 :      283        (UNWEIGHTED)
       1705.895943 (WEIGHTED)
 Records in the reference category (3) :     3766       (UNWEIGHTED)
       3671.472451 (WEIGHTED)
ITERATIONS REQUIRED FOR FULL SAMPLE :        8
MAXIMUM ITERATIONS FOR REPLICATE SAMPLE :    8
-2 LOG LIKELIHOOD FOR FULL SAMPLE :  7351.90336
-2 LOG LIKELIHOOD FOR MODEL CONTAINING INTERCEPT ONLY :     9007.13993
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CATEGORY	PARAMETER	PARAMETER ESTIMATE	STANDARD ERROR OF ESTIMATE	TEST FOR H0: PARAMETER=0	PROB>|T|	LOWER 95%	UPPER 95%
WKSTAT_REV.1	INTERCEPT	-0.38	0.174	-2.182	0.035	-0.730	-0.029
WKSTAT_REV.1	SEXM	-0.64	0.110	-5.827	0.000	-0.862	-0.418
WKSTAT_REV.1	ALD	0.33	0.130	2.562	0.014	0.071	0.596
WKSTAT_REV.1	MDE	0.10	0.089	1.113	0.272	-0.080	0.277
WKSTAT_REV.1	ED12	-0.65	0.142	-4.589	0.000	-0.938	-0.365
WKSTAT_REV.1	ED1315	-0.92	0.146	-6.274	0.000	-1.212	-0.622
WKSTAT_REV.1	ED16	-1.23	0.159	-7.740	0.000	-1.550	-0.909
WKSTAT_REV.1	AGECAT_REV.1	2.38	0.174	13.701	0.000	2.030	2.731
WKSTAT_REV.1	AGECAT_REV.2	0.06	0.169	0.384	0.703	-0.276	0.406
WKSTAT_REV.1	AGECAT_REV.3	-0.32	0.129	-2.452	0.018	-0.577	-0.056
WKSTAT_REV.1	MAR3CAT_REV.1	0.55	0.132	4.172	0.000	0.285	0.820
WKSTAT_REV.1	MAR3CAT_REV.2	-0.05	0.105	-0.497	0.622	-0.265	0.160
WKSTAT_REV.2	INTERCEPT	-0.64	0.298	-2.164	0.036	-1.244	-0.043
WKSTAT_REV.2	SEXM	-1.39	0.200	-6.961	0.000	-1.797	-0.989
WKSTAT_REV.2	ALD	-0.16	0.371	-0.442	0.661	-0.912	0.585
WKSTAT_REV.2	MDE	-0.14	0.158	-0.886	0.381	-0.458	0.179
WKSTAT_REV.2	ED12	-0.85	0.235	-3.599	0.001	-1.322	-0.372
WKSTAT_REV.2	ED1315	-1.37	0.257	-5.314	0.000	-1.884	-0.847
WKSTAT_REV.2	ED16	-1.73	0.314	-5.511	0.000	-2.365	-1.097
WKSTAT_REV.2	AGECAT_REV.1	1.83	0.306	5.971	0.000	1.210	2.446
WKSTAT_REV.2	AGECAT_REV.2	-0.84	0.264	-3.179	0.003	-1.369	-0.306
WKSTAT_REV.2	AGECAT_REV.3	-0.85	0.296	-2.876	0.006	-1.451	-0.254
WKSTAT_REV.2	MAR3CAT_REV.1	-2.78	0.388	-7.169	0.000	-3.568	-2.001
WKSTAT_REV.2	MAR3CAT_REV.2	-0.59	0.228	-2.589	0.013	-1.050	-0.130

TEST	F VALUE	NUM. DF	DENOM. DF	PROB>F
OVERALL FIT	71.848	22	21	0.000
TEST1	5.011	2	41	0.011
TEST2	1.097	2	41	0.343
TEST3	35.546	2	41	0.000
TEST4	13.642	6	37	0.000
TEST5	83.323	6	37	0.000
TEST6	23.868	4	39	0.000
TEST7	1.251	3	40	0.304

NOTE: CODES FOR WKSTAT3C 1=EMPLOYED 2=UNEMPLOYED 3=NOT IN LABOR FORCE, CODES FOR SEX 1=MALE 2=FEMALE, CODES FOR ALD 0=NO 1=YES, CODES FOR MDE 0=NO 1=YES, CODES FOR EDUCATION 1=0-11 2=12 3=13-15 4=16+ YEARS OF EDUCATION. REVERSE CODING USED IN MODEL IS SIMPLY THE REVERSE OF THE CODES ABOVE.

ODDS RATIO	PARAMETER	ESTIMATE	LOWER 95%	UPPER 95%
WKSTAT_REV.1 vs. WKSTAT_REV.3	SEXM	0.53	0.422	0.658
WKSTAT_REV.1 vs. WKSTAT_REV.3	ALD	1.40	1.073	1.814
WKSTAT_REV.1 vs. WKSTAT_REV.3	MDE	1.10	0.923	1.319
WKSTAT_REV.1 vs. WKSTAT_REV.3	ED12	0.52	0.391	0.694
WKSTAT_REV.1 vs. WKSTAT_REV.3	ED1315	0.40	0.298	0.537
WKSTAT_REV.1 vs. WKSTAT_REV.3	ED16	0.29	0.212	0.403
WKSTAT_REV.1 vs. WKSTAT_REV.3	AGECAT_REV.1	10.81	7.614	15.352
WKSTAT_REV.1 vs. WKSTAT_REV.3	AGECAT_REV.2	1.07	0.759	1.501
WKSTAT_REV.1 vs. WKSTAT_REV.3	AGECAT_REV.3	0.73	0.562	0.946
WKSTAT_REV.1 vs. WKSTAT_REV.3	MAR3CAT_REV.1	1.74	1.330	2.271
WKSTAT_REV.1 vs. WKSTAT_REV.3	MAR3CAT_REV.2	0.95	0.768	1.174
WKSTAT_REV.2 vs. WKSTAT_REV.3	SEXM	0.25	0.166	0.372
WKSTAT_REV.2 vs. WKSTAT_REV.3	ALD	0.85	0.402	1.794
WKSTAT_REV.2 vs. WKSTAT_REV.3	MDE	0.87	0.633	1.195
WKSTAT_REV.2 vs. WKSTAT_REV.3	ED12	0.43	0.267	0.689
WKSTAT_REV.2 vs. WKSTAT_REV.3	ED1315	0.26	0.152	0.429
WKSTAT_REV.2 vs. WKSTAT_REV.3	ED16	0.18	0.094	0.334
WKSTAT_REV.2 vs. WKSTAT_REV.3	AGECAT_REV.1	6.22	3.355	11.546
WKSTAT_REV.2 vs. WKSTAT_REV.3	AGECAT_REV.2	0.43	0.254	0.736
WKSTAT_REV.2 vs. WKSTAT_REV.3	AGECAT_REV.3	0.43	0.234	0.775
WKSTAT_REV.2 vs. WKSTAT_REV.3	MAR3CAT_REV.1	0.06	0.028	0.135
WKSTAT_REV.2 vs. WKSTAT_REV.3	MAR3CAT_REV.2	0.55	0.350	0.878

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