

id	working	region	kids0004	kids0509	kids1014	familyIncome	education	work	k04	k59	k1014
1	TRUE	BC	Yes	Yes	Yes	24.646	13.0	1	1	1	1
2	TRUE	Atlantic	No	Yes	No	29.762	9.0	1	0	1	0
3	TRUE	BC	Yes	Yes	No	33.511	16.0	1	1	1	0
4	TRUE	Quebec	Yes	No	No	21.438	18.5	1	1	0	0
5	TRUE	Prairies	No	No	No	17.183	16.0	1	0	0	0
6	TRUE	BC	No	No	No	14.882	15.5	1	0	0	0
7	TRUE	Quebec	No	No	Yes	1.704	15.5	1	0	0	1
8	TRUE	Atlantic	No	Yes	Yes	14.182	13.1	1	0	1	1
9	TRUE	Ontario	No	No	No	28.434	19.0	1	0	0	0
10	TRUE	BC	No	Yes	No	33.546	17.0	1	0	1	0
11	TRUE	BC	Yes	Yes	No	44.562	14.0	1	1	1	0
12	TRUE	Ontario	No	No	No	29.014	15.6	1	0	0	0
13	FALSE	Ontario	No	No	Yes	31.962	12.0	0	0	0	1
14	TRUE	Atlantic	Yes	Yes	No	21.642	12.0	1	1	1	0
15	FALSE	Atlantic	Yes	Yes	Yes	45.572	10.0	0	1	1	1
16	TRUE	Ontario	No	Yes	No	28.157	14.0	1	0	1	0
17	TRUE	Ontario	No	No	No	55.724	15.0	1	0	0	0
18	TRUE	Atlantic	Yes	No	No	43.984	18.0	1	1	0	0
19	TRUE	Prairies	No	No	No	16.361	14.0	1	0	0	0
20	FALSE	Quebec	Yes	No	No	28.619	13.5	0	1	0	0
21	TRUE	Ontario	Yes	Yes	No	16.830	15.5	1	1	1	0
22	TRUE	Prairies	Yes	Yes	No	36.545	14.0	1	1	1	0
23	TRUE	Prairies	Yes	No	No	25.633	14.0	1	1	0	0
24	TRUE	Prairies	Yes	Yes	Yes	27.239	12.0	1	1	1	1
25	TRUE	Quebec	No	Yes	No	18.403	12.0	1	0	1	0
26	TRUE	Atlantic	No	No	No	24.347	16.5	1	0	0	0
27	TRUE	BC	No	No	No	10.708	15.1	1	0	0	0
28	TRUE	Prairies	Yes	No	No	33.167	13.0	1	1	0	0
29	TRUE	Quebec	Yes	No	No	33.365	15.8	1	1	0	0
30	TRUE	Atlantic	Yes	No	No	15.252	12.0	1	1	0	0

The FREQ Procedure

working	Frequency	Percent	Cumulative Frequency	Cumulative Percent
FALSE	406	20.98	406	20.98
TRUE	1529	79.02	1935	100.00

region	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Atlantic	438	22.64	438	22.64
BC	159	8.22	597	30.85
Ontario	581	30.03	1178	60.88
Prairies	501	25.89	1679	86.77
Quebec	256	13.23	1935	100.00

kids0004	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	903	46.67	903	46.67
Yes	1032	53.33	1935	100.00

kids0509	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	1084	56.02	1084	56.02
Yes	851	43.98	1935	100.00

kids1014	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	1508	77.93	1508	77.93
Yes	427	22.07	1935	100.00

The UNIVARIATE Procedure
Variable: familyIncome

Moments			
N	1935	Sum Weights	1935
Mean	27.8362207	Sum Observations	53863.087
Std Deviation	14.3000912	Variance	204.492608
Skewness	1.15095675	Kurtosis	4.07206692
Uncorrected SS	1894833.48	Corrected SS	395488.703
Coeff Variation	51.3722439	Std Error Mean	0.32508604

Basic Statistical Measures			
Location		Variability	
Mean	27.83622	Std Deviation	14.30009
Median	26.65200	Variance	204.49261
Mode	0.00000	Range	131.10500
		Interquartile Range	16.54400

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	85.62724	Pr > t	<.0001
Sign	M	952	Pr >= M	<.0001
Signed Rank	S	906780	Pr >= S	<.0001

Quantiles (Definition 5)	
Quantile	Estimate
100% Max	131.105
99%	73.378
95%	50.960
90%	44.345
75% Q3	35.154
50% Median	26.652
25% Q1	18.610
10%	11.633
5%	6.918

The UNIVARIATE Procedure
Variable: familyIncome

Quantiles (Definition 5)	
Quantile	Estimate
1%	0.000
0% Min	0.000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	1853	97.181	411
0	1781	101.319	1044
0	1763	106.955	1404
0	1446	110.223	1863
0	1443	131.105	609

The UNIVARIATE Procedure
Variable: education

Moments			
N	1935	Sum Weights	1935
Mean	13.25323	Sum Observations	25645
Std Deviation	2.62359208	Variance	6.88323543
Skewness	-0.0736574	Kurtosis	1.75931121
Uncorrected SS	353191.26	Corrected SS	13312.1773
Coeff Variation	19.7958693	Std Error Mean	0.0596425

Basic Statistical Measures			
Location		Variability	
Mean	13.25323	Std Deviation	2.62359
Median	13.00000	Variance	6.88324
Mode	12.00000	Range	20.00000
		Interquartile Range	3.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	222.2112	Pr > t	<.0001
Sign	M	965.5	Pr >= M	<.0001
Signed Rank	S	932673	Pr >= S	<.0001

Quantiles (Definition 5)	
Quantile	Estimate
100% Max	20.0
99%	20.0
95%	18.0
90%	17.0
75% Q3	15.0
50% Median	13.0
25% Q1	12.0
10%	10.0
5%	9.2

The UNIVARIATE Procedure
Variable: education

Quantiles (Definition 5)	
Quantile	Estimate
1%	7.0
0% Min	0.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	1490	20	1721
0	924	20	1737
0	872	20	1820
0	716	20	1893
2	1575	20	1925

The LOGISTIC Procedure

Model Information	
Data Set	WORK.SLIDWOMEN
Response Variable	work
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	1935
Number of Observations Used	1935

Response Profile		
Ordered Value	work	Total Frequency
1	0	406
2	1	1529

Probability modeled is work=1.

Class Level Information					
Class	Value	Design Variables			
region	Atlantic	1	0	0	0
	BC	0	1	0	0
	Ontario	0	0	1	0
	Prairies	0	0	0	1
	Quebec	-1	-1	-1	-1

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

The LOGISTIC Procedure

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1990.084	1839.376
SC	1995.652	1928.462
-2 Log L	1988.084	1807.376

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	180.7080	15	<.0001
Score	175.0568	15	<.0001
Wald	149.3289	15	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
region	4	17.8079	0.0013
k04	1	1.4773	0.2242
k59	1	0.1643	0.6852
k1014	1	0.1305	0.7179
familyIncome	1	1.0753	0.2998
education	1	20.3622	<.0001
k04*familyIncome	1	0.0012	0.9720
k59*familyIncome	1	1.2185	0.2696
k1014*familyIncome	1	0.4606	0.4974
k04*education	1	0.0308	0.8607
k59*education	1	0.3582	0.5495
k1014*education	1	0.5692	0.4506

The LOGISTIC Procedure

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-0.8445	0.7396	1.3039	0.2535
region	Atlantic	1	-0.00186	0.1174	0.0003	0.9873
region	BC	1	0.3747	0.1875	3.9964	0.0456
region	Ontario	1	0.1012	0.1091	0.8605	0.3536
region	Prairies	1	0.0753	0.1127	0.4466	0.5040
k04		1	-0.8766	0.7212	1.4773	0.2242
k59		1	0.2598	0.6409	0.1643	0.6852
k1014		1	0.2866	0.7932	0.1305	0.7179
familyIncome		1	-0.00942	0.00908	1.0753	0.2998
education		1	0.2512	0.0557	20.3622	<.0001
k04*familyIncome		1	0.000326	0.00928	0.0012	0.9720
k59*familyIncome		1	-0.00935	0.00847	1.2185	0.2696
k1014*familyIncome		1	0.00718	0.0106	0.4606	0.4974
k04*education		1	-0.00971	0.0553	0.0308	0.8607
k59*education		1	-0.0299	0.0500	0.3582	0.5495
k1014*education		1	-0.0473	0.0627	0.5692	0.4506

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
region Atlantic vs Quebec	1.729	1.190	2.512
region BC vs Quebec	2.520	1.483	4.281
region Ontario vs Quebec	1.917	1.336	2.750
region Prairies vs Quebec	1.868	1.294	2.696

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	71.1	Somers' D	0.426
Percent Discordant	28.5	Gamma	0.427
Percent Tied	0.4	Tau-a	0.141
Pairs	620774	c	0.713

The LOGISTIC Procedure

Model Information	
Data Set	WORK.SLIDWOMEN
Response Variable	work
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	1935
Number of Observations Used	1935

Response Profile		
Ordered Value	work	Total Frequency
1	0	406
2	1	1529

Probability modeled is work=1.

Class Level Information					
Class	Value	Design Variables			
region	Atlantic	1	0	0	0
	BC	0	1	0	0
	Ontario	0	0	1	0
	Prairies	0	0	0	1
	Quebec	-1	-1	-1	-1

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

The LOGISTIC Procedure

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1990.084	1830.125
SC	1995.652	1885.804
-2 Log L	1988.084	1810.125

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	177.9593	9	<.0001
Score	167.5567	9	<.0001
Wald	148.6367	9	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
region	4	17.8330	0.0013
k04	1	55.9710	<.0001
k59	1	10.5908	0.0011
k1014	1	0.3199	0.5717
familyIncome	1	9.1773	0.0025
education	1	72.0640	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-0.3082	0.3565	0.7474	0.3873
region	Atlantic	1	0.00145	0.1172	0.0002	0.9902
region	BC	1	0.3727	0.1870	3.9728	0.0462
region	Ontario	1	0.1011	0.1090	0.8602	0.3537
region	Prairies	1	0.0727	0.1124	0.4188	0.5175
k04		1	-0.9945	0.1329	55.9710	<.0001
k59		1	-0.3890	0.1195	10.5908	0.0011
k1014		1	-0.0871	0.1540	0.3199	0.5717

The LOGISTIC Procedure

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
familyIncome		1	-0.0126	0.00416	9.1773	0.0025
education		1	0.2167	0.0255	72.0640	<.0001

Odds Ratio Estimates				
Effect		Point Estimate	95% Wald Confidence Limits	
region	Atlantic vs Quebec	1.732	1.194	2.513
region	BC vs Quebec	2.511	1.481	4.257
region	Ontario vs Quebec	1.914	1.335	2.743
region	Prairies vs Quebec	1.860	1.291	2.681
k04		0.370	0.285	0.480
k59		0.678	0.536	0.857
k1014		0.917	0.678	1.239
familyIncome		0.987	0.979	0.996
education		1.242	1.181	1.306

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	71.1	Somers' D	0.426
Percent Discordant	28.5	Gamma	0.428
Percent Tied	0.4	Tau-a	0.141
Pairs	620774	c	0.713

Obs	id	work	pred	ll
1	1	1	0.75036	-0.28720
2	2	1	0.70674	-0.34710
3	3	1	0.84890	-0.16381
4	4	1	0.86855	-0.14093
5	5	1	0.95326	-0.04787
6	6	1	0.96216	-0.03857
7	7	1	0.91638	-0.08732
8	8	1	0.86730	-0.14237
9	9	1	0.97213	-0.02826
10	10	1	0.94964	-0.05168
11	11	1	0.76013	-0.27427
12	12	1	0.94310	-0.05858
13	13	0	0.87029	-2.04248
14	14	1	0.65418	-0.42437
15	15	0	0.45400	-0.60514
16	16	1	0.88924	-0.11739
17	17	1	0.91224	-0.09185
18	18	1	0.88546	-0.12164
19	19	1	0.93036	-0.07218
20	20	0	0.67133	-1.11271
21	21	1	0.82581	-0.19139
22	22	1	0.72200	-0.32573
23	23	1	0.81471	-0.20492
24	24	1	0.63441	-0.45506
25	25	1	0.75462	-0.28155
26	26	1	0.95083	-0.05042
27	27	1	0.96090	-0.03988
28	28	1	0.76301	-0.27048
29	29	1	0.76003	-0.27440
30	30	1	0.75157	-0.28559
31	31	1	0.88267	-0.12481
32	32	1	0.94636	-0.05513
33	33	1	0.88875	-0.11794

Obs	id	work	pred	ll
34	34	1	0.68164	-0.38326
35	35	1	0.83539	-0.17986

The MEANS Procedure

Analysis Variable : ll
Sum
-905.0625983