

**PROC SURVEYLOGISTIC - CHIS.CHIS\_DATA\_FINAL - Full Association****The SURVEYLOGISTIC Procedure**

Model Information		
Data Set	CHIS.CHIS_DATA_FINAL	
Response Variable	POVLL	POVERTY LEVEL
Number of Response Levels	4	
Weight Variable	frwgt0	
Model	Generalized Logit	
Optimization Technique	Newton-Raphson	

Number of Observations Read	124521
Number of Observations Used	124521
Sum of Weights Read	28246634
Sum of Weights Used	28246634

Response Profile			
Ordered Value	POVLL	Total Frequency	Total Weight
1	0-99% FPL	18295	4706950
2	100-199% FPL	22822	5528155
3	200-299% FPL	17229	3973723
4	300% FPL and Above	66175	14037805

*Logits modeled use POVLL='300 % FPL and Above' as the reference category.*

Class Level Information					
Class	Value	Design Variables			
AC42_P	Always	-1	-1	-1	-1
	Does Eat/Shop for Fruits & Vegetables	1	0	0	0
	Never	0	1	0	0
	Sometimes	0	0	1	0
	Usually	0	0	0	1
AC44	Always	-1	-1	-1	-1
	Inapplicable	1	0	0	0
	Never	0	1	0	0
	Sometimes	0	0	1	0
	Usually	0	0	0	1

Variance Estimation	
Method	Jackknife
Replicate Weights	CHIS_DATA_FINAL
Number of Replicates	160

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	70121394	68009968
SC	70121439	68010604
-2 Log L	70121388	68009884

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	195.85	28.1263	4500.21	<.0001
Score	77.76	39	160	<.0001
Wald	76.40	39	160	<.0001
NOTE: Second-order Rao-Scott design correction 0.3866 applied to the Likelihood Ratio test.				

Joint Tests				
Effect	F Value	Num DF	Den DF	Pr > F
AC42_P*AC44	76.40	39	160	<.0001

**Note:** Under full-rank parameterizations, Type 3 effect tests are replaced by joint tests. The joint test for an effect is a test that all the parameters associated with that effect are zero. Such joint tests might not be equivalent to Type 3 effect tests under GLM parameterization.

**Note:** The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

AC42_PNeverAC44Never_0-99% FPL =	AC42_PDoes Eat/Shop for Fruits 2
AC42_PNeverAC44Never_100-199% FP =	AC42_PDoes Eat/Shop for Fruits 2
AC42_PNeverAC44Never_200-299% FP =	AC42_PDoes Eat/Shop for Fruits 2
AC42_PNeverAC44Sometimes_0-99% F =	AC42_PDoes Eat/Shop for Fruits 3
AC42_PNeverAC44Sometimes_100-199 =	AC42_PDoes Eat/Shop for Fruits 3
AC42_PNeverAC44Sometimes_200-299 =	AC42_PDoes Eat/Shop for Fruits 3
AC42_PNeverAC44Usually_0-99% FPL =	AC42_PDoes Eat/Shop for Fruits 4
AC42_PNeverAC44Usually_100-199% =	AC42_PDoes Eat/Shop for Fruits 4
AC42_PNeverAC44Usually_200-299% =	AC42_PDoes Eat/Shop for Fruits 4

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## The SURVEYLOGISTIC Procedure

## Analysis of Maximum Likelihood Estimates

Parameter			POVLL	Estimate	Standard Error	t Value	Pr >  t
Intercept			0-99% FPL	-0.4634	0.0645	-7.19	<.0001
Intercept			100-199% FPL	-0.3956	0.0631	-6.27	<.0001
Intercept			200-299% FPL	-0.9533	0.0695	-13.72	<.0001
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Inapplicable	0-99% FPL	0.0643	0.1990	0.32	0.7472
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Inapplicable	100-199% FPL	0.0678	0.1927	0.35	0.7255
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Inapplicable	200-299% FPL	0.1548	0.1933	0.80	0.4245
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Never	0-99% FPL	-1.5356	0.3943	-3.89	0.0001
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Never	100-199% FPL	-1.0844	0.4084	-2.66	0.0087
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Never	200-299% FPL	-0.3645	0.4502	-0.81	0.4193
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Sometimes	0-99% FPL	-1.4079	0.2216	-6.35	<.0001
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Sometimes	100-199% FPL	-1.2663	0.2017	-6.28	<.0001
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Sometimes	200-299% FPL	-0.8793	0.2154	-4.08	<.0001
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Usually	0-99% FPL	0.8137	0.2246	3.62	0.0004
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Usually	100-199% FPL	0.5919	0.2199	2.69	0.0079
AC42_P*AC44	Does Eat/Shop for Fruits & Vegetables	Usually	200-299% FPL	0.1197	0.2289	0.52	0.6017
AC42_P*AC44	Never	Inapplicable	0-99% FPL	0.0988	0.1137	0.87	0.3861
AC42_P*AC44	Never	Inapplicable	100-199% FPL	0.0905	0.1048	0.86	0.3889
AC42_P*AC44	Never	Inapplicable	200-299% FPL	0.1914	0.1269	1.51	0.1334
AC42_P*AC44	Never	Never	0-99% FPL	0	.	.	.
AC42_P*AC44	Never	Never	100-199% FPL	0	.	.	.
AC42_P*AC44	Never	Never	200-299% FPL	0	.	.	.
AC42_P*AC44	Never	Sometimes	0-99% FPL	0	.	.	.
AC42_P*AC44	Never	Sometimes	100-199% FPL	0	.	.	.
AC42_P*AC44	Never	Sometimes	200-299% FPL	0	.	.	.
AC42_P*AC44	Never	Usually	0-99% FPL	0	.	.	.
AC42_P*AC44	Never	Usually	100-199% FPL	0	.	.	.
AC42_P*AC44	Never	Usually	200-299% FPL	0	.	.	.
AC42_P*AC44	Sometimes	Inapplicable	0-99% FPL	-1.7889	0.2612	-6.85	<.0001
AC42_P*AC44	Sometimes	Inapplicable	100-199% FPL	-1.3071	0.2749	-4.75	<.0001
AC42_P*AC44	Sometimes	Inapplicable	200-299% FPL	-1.4744	0.3585	-4.11	<.0001
AC42_P*AC44	Sometimes	Never	0-99% FPL	1.0474	0.2724	3.85	0.0002
AC42_P*AC44	Sometimes	Never	100-199% FPL	0.7080	0.2930	2.42	0.0168
AC42_P*AC44	Sometimes	Never	200-299% FPL	0.7415	0.3958	1.87	0.0629
AC42_P*AC44	Sometimes	Sometimes	0-99% FPL	0.8699	0.0951	9.14	<.0001
AC42_P*AC44	Sometimes	Sometimes	100-199% FPL	0.6660	0.0942	7.07	<.0001
AC42_P*AC44	Sometimes	Sometimes	200-299% FPL	0.5261	0.1270	4.14	<.0001
AC42_P*AC44	Sometimes	Usually	0-99% FPL	0.0761	0.1243	0.61	0.5413

NOTE: The degrees of freedom for the t tests is 160.

## The SURVEYLOGISTIC Procedure

Analysis of Maximum Likelihood Estimates							
Parameter			POVLL	Estimate	Standard Error	t Value	Pr >  t
AC42_P*AC44	Sometimes	Usually	100-199% FPL	0.0738	0.1151	0.64	0.5223
AC42_P*AC44	Sometimes	Usually	200-299% FPL	0.1301	0.1267	1.03	0.3060
AC42_P*AC44	Usually	Inapplicable	0-99% FPL	-0.6747	0.2866	-2.35	0.0198
AC42_P*AC44	Usually	Inapplicable	100-199% FPL	-0.5321	0.3237	-1.64	0.1021
AC42_P*AC44	Usually	Inapplicable	200-299% FPL	0.2874	0.3158	0.91	0.3641
AC42_P*AC44	Usually	Never	0-99% FPL	0.7765	0.3079	2.52	0.0126
AC42_P*AC44	Usually	Never	100-199% FPL	0.4570	0.3828	1.19	0.2343
AC42_P*AC44	Usually	Never	200-299% FPL	-0.3563	0.3588	-0.99	0.3221
AC42_P*AC44	Usually	Sometimes	0-99% FPL	0.4934	0.1229	4.02	<.0001
AC42_P*AC44	Usually	Sometimes	100-199% FPL	0.5470	0.1096	4.99	<.0001
AC42_P*AC44	Usually	Sometimes	200-299% FPL	0.2335	0.1289	1.81	0.0719
AC42_P*AC44	Usually	Usually	0-99% FPL	-0.1185	0.0949	-1.25	0.2135
AC42_P*AC44	Usually	Usually	100-199% FPL	-0.0847	0.1100	-0.77	0.4424
AC42_P*AC44	Usually	Usually	200-299% FPL	0.0706	0.1057	0.67	0.5049

NOTE: The degrees of freedom for the t tests is 160.