

Model Information		
Data Set	KOLIB.FINAL_GUNVIOLENCE_DATA	
Response Variable	Workplace Shooting	Workplace Shooting
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	185
Number of Observations Used	163

Response Profile		
Ordered Value	Workplace Shooting	Total Frequency
1	0	112
2	1	51

Probability modeled is Workplace Shooting='1'.

Note: 22 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information								
Class	Value	Design Variables						
Urban/Suburban/Rural	0	1	0	0				
	1	0	1	0				
	2	0	0	1				
Weekday/Weekend	Weekday	1	0					
	Weekend	0	1					
Employment Status	0	1	0					
	1	0	1					
Gender	0	1	0					
	1	0	1					
Insider or Outsider	0	1	0					
	1	0	1					
Criminal Record	0	1	0					
	1	0	1					
Race	0	1	0	0	0	0	0	0
	1	0	1	0	0	0	0	0
	2	0	0	1	0	0	0	0
	3	0	0	0	1	0	0	0
	4	0	0	0	0	1	0	0
	5	0	0	0	0	0	0	1

Model Convergence Status
Quasi-complete separation of data points detected.

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	204.573	84.443
SC	207.666	137.037
-2 Log L	202.573	50.443

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	152.1296	16	<.0001
Score	104.1875	16	<.0001
Wald	26.2552	16	0.0505

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
Urban/Suburban/Rural	2	10.6655	0.0048
Weekday/Weekend	1	7.0566	0.0079
Employment Status	1	8.7204	0.0031
Gender	1	0.0033	0.9542
Insider or Outsider	1	23.8921	<.0001
Criminal Record	1	0.1752	0.6756
Race	5	4.9126	0.4266
Age	1	9.3444	0.0022
Number Killed	1	2.9258	0.0872
Number Injured	1	1.7917	0.1807
Total Firearms Broug	1	0.4706	0.4927

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-18.8492	135.2	0.0194	0.8891
Urban/Suburban/Rural	0	1	4.5705	1.5442	8.7606	0.0031
Urban/Suburban/Rural	1	1	2.2909	1.5062	2.3134	0.1283
Urban/Suburban/Rural	2	0	0	.	.	.
Weekday/Weekend	Weekday	1	4.7545	1.7898	7.0566	0.0079
Weekday/Weekend	Weekend	0	0	.	.	.
Employment Status	0	1	-3.0915	1.0469	8.7204	0.0031
Employment Status	1	0	0	.	.	.
Gender	0	1	-7.9022	137.7	0.0033	0.9542
Gender	1	0	0	.	.	.
Insider or Outsider	0	1	-6.9330	1.4184	23.8921	<.0001
Insider or Outsider	1	0	0	.	.	.
Criminal Record	0	1	0.3548	0.8477	0.1752	0.6756
Criminal Record	1	0	0	.	.	.
Race	0	1	20.9966	193.0	0.0118	0.9134
Race	1	1	21.4150	193.0	0.0123	0.9116
Race	2	1	21.1333	193.0	0.0120	0.9128
Race	3	1	18.1805	193.0	0.0089	0.9249
Race	4	1	19.5841	193.0	0.0103	0.9192
Race	5	0	0	.	.	.
Age		1	0.1190	0.0389	9.3444	0.0022
Number Killed		1	-0.2906	0.1699	2.9258	0.0872
Number Injured		1	-0.0880	0.0658	1.7917	0.1807
Total Firearms Broug		1	0.1919	0.2798	0.4706	0.4927

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
Urban/Suburban/Rural 0 vs 2	96.597	4.683	>999.999
Urban/Suburban/Rural 1 vs 2	9.884	0.516	189.251
Weekday/Weekend Weekday vs Weekend	116.101	3.478	>999.999
Employment Status 0 vs 1	0.045	0.006	0.354
Gender 0 vs 1	<0.001	<0.001	>999.999
Insider or Outsider 0 vs 1	<0.001	<0.001	0.016
Criminal Record 0 vs 1	1.426	0.271	7.509
Race 0 vs 5	>999.999	<0.001	>999.999
Race 1 vs 5	>999.999	<0.001	>999.999
Race 2 vs 5	>999.999	<0.001	>999.999
Race 3 vs 5	>999.999	<0.001	>999.999
Race 4 vs 5	>999.999	<0.001	>999.999
Age	1.126	1.044	1.216
Number Killed	0.748	0.536	1.043
Number Injured	0.916	0.805	1.042
Total Firearms Broug	1.212	0.700	2.097

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	97.9	Somers' D	0.958
Percent Discordant	2.1	Gamma	0.958
Percent Tied	0.0	Tau-a	0.415
Pairs	5712	c	0.979