| **Model Information** | |
| --- | --- |
| **Data Set** | WORK.FACTORSCORES |
| **Response Variable** | ConvOrd |
| **Number of Response Levels** | 3 |
| **Model** | generalized logit |
| **Optimization Technique** | Newton-Raphson |

|  |  |
| --- | --- |
| **Number of Observations Read** | 1887 |
| **Number of Observations Used** | 1878 |

| **Response Profile** | | |
| --- | --- | --- |
| **Ordered Value** | **ConvOrd** | **Total Frequency** |
| **1** | 1 | 1148 |
| **2** | 2 | 435 |
| **3** | 3 | 295 |

|  |
| --- |
| ***Logits modeled use ConvOrd=1 as the reference category.*** |

|  |  |
| --- | --- |
| **Note:** | 9 observations were deleted due to missing values for the response or explanatory variables. |

| **Class Level Information** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Class** | **Value** | **Design Variables** | | | |
| **Gender** | **0** | -1 |  |  |  |
|  | **1** | 1 |  |  |  |
|  |  |  |  |  |  |
| **Region\_Char** | **Midwest** | -1 | -1 | -1 |  |
|  | **Northeast** | 1 | 0 | 0 |  |
|  | **South** | 0 | 1 | 0 |  |
|  | **West** | 0 | 0 | 1 |  |
|  |  |  |  |  |  |
| **Race** | **1** | -1 | -1 | -1 | -1 |
|  | **2** | 1 | 0 | 0 | 0 |
|  | **3** | 0 | 1 | 0 | 0 |
|  | **4** | 0 | 0 | 1 | 0 |
|  | **5** | 0 | 0 | 0 | 1 |
|  |  |  |  |  |  |
| **Party** | **D** | 1 |  |  |  |
|  | **R** | -1 |  |  |  |
|  |  |  |  |  |  |
| **Seat\_Type** | **0** | -1 |  |  |  |
|  | **1** | 1 |  |  |  |
|  |  |  |  |  |  |
| **Incumbent** | **n** | -1 |  |  |  |
|  | **y** | 1 |  |  |  |

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

| **Model Fit Statistics** | | |
| --- | --- | --- |
| **Criterion** | **Intercept Only** | **Intercept and Covariates** |
| **AIC** | 3498.618 | 3421.620 |
| **SC** | 3509.694 | 3665.290 |
| **-2 Log L** | 3494.618 | 3333.620 |

| **Testing Global Null Hypothesis: BETA=0** | | | |
| --- | --- | --- | --- |
| **Test** | **Chi-Square** | **DF** | **Pr > ChiSq** |
| **Likelihood Ratio** | 160.9985 | 42 | <.0001 |
| **Score** | 146.2419 | 42 | <.0001 |
| **Wald** | 134.2059 | 42 | <.0001 |

| **Joint Tests** | | | |
| --- | --- | --- | --- |
| **Effect** | **DF** | **Wald Chi-Square** | **Pr > ChiSq** |
| **RuralGOP** | 2 | 7.4673 | 0.0239 |
| **RuralGOP\*Gender** | 2 | 3.4012 | 0.1826 |
| **Affluent** | 2 | 8.6681 | 0.0131 |
| **Affluent\*Gender** | 2 | 5.1261 | 0.0771 |
| **EliteActive** | 2 | 0.8942 | 0.6395 |
| **EliteActive\*Gender** | 2 | 1.0110 | 0.6032 |
| **Traditional** | 2 | 0.7476 | 0.6881 |
| **Traditional\*Gender** | 2 | 4.1927 | 0.1229 |
| **AfrAmer** | 2 | 0.4093 | 0.8149 |
| **AfrAmer\*Gender** | 2 | 5.3063 | 0.0704 |
| **Gender** | 2 | 10.7563 | 0.0046 |
| **Region\_Char** | 6 | 14.1207 | 0.0283 |
| **Race** | 8 | 7.5542 | 0.4782 |
| **Party** | 2 | 6.6569 | 0.0358 |
| **Seat\_Type** | 2 | 11.9358 | 0.0026 |
| **Incumbent** | 2 | 56.5899 | <.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. |

| **Analysis of Maximum Likelihood Estimates** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter** |  | **ConvOrd** | **DF** | **Estimate** | **Standard Error** | **Wald Chi-Square** | **Pr > ChiSq** |
| **Intercept** |  | **2** | 1 | -1.0908 | 0.1553 | 49.3077 | <.0001 |
| **Intercept** |  | **3** | 1 | -2.2106 | 0.2057 | 115.4483 | <.0001 |
| **RuralGOP** |  | **2** | 1 | 0.1808 | 0.0769 | 5.5328 | 0.0187 |
| **RuralGOP** |  | **3** | 1 | 0.1895 | 0.1001 | 3.5876 | 0.0582 |
| **RuralGOP\*Gender** | **1** | **2** | 1 | -0.0809 | 0.0646 | 1.5688 | 0.2104 |
| **RuralGOP\*Gender** | **1** | **3** | 1 | 0.0902 | 0.0876 | 1.0601 | 0.3032 |
| **Affluent** |  | **2** | 1 | -0.1563 | 0.0657 | 5.6561 | 0.0174 |
| **Affluent** |  | **3** | 1 | -0.1891 | 0.0839 | 5.0768 | 0.0242 |
| **Affluent\*Gender** | **1** | **2** | 1 | 0.1382 | 0.0636 | 4.7185 | 0.0298 |
| **Affluent\*Gender** | **1** | **3** | 1 | -0.00831 | 0.0822 | 0.0102 | 0.9195 |
| **EliteActive** |  | **2** | 1 | 0.0145 | 0.0742 | 0.0380 | 0.8455 |
| **EliteActive** |  | **3** | 1 | -0.0770 | 0.0908 | 0.7183 | 0.3967 |
| **EliteActive\*Gender** | **1** | **2** | 1 | 0.0429 | 0.0644 | 0.4432 | 0.5056 |
| **EliteActive\*Gender** | **1** | **3** | 1 | 0.0726 | 0.0808 | 0.8059 | 0.3693 |
| **Traditional** |  | **2** | 1 | 0.0370 | 0.0660 | 0.3150 | 0.5746 |
| **Traditional** |  | **3** | 1 | -0.0420 | 0.0837 | 0.2518 | 0.6158 |
| **Traditional\*Gender** | **1** | **2** | 1 | -0.1032 | 0.0624 | 2.7333 | 0.0983 |
| **Traditional\*Gender** | **1** | **3** | 1 | 0.0620 | 0.0805 | 0.5934 | 0.4411 |
| **AfrAmer** |  | **2** | 1 | 0.0428 | 0.0784 | 0.2977 | 0.5853 |
| **AfrAmer** |  | **3** | 1 | -0.0200 | 0.1023 | 0.0381 | 0.8452 |
| **AfrAmer\*Gender** | **1** | **2** | 1 | -0.0846 | 0.0631 | 1.7972 | 0.1801 |
| **AfrAmer\*Gender** | **1** | **3** | 1 | -0.1822 | 0.0851 | 4.5898 | 0.0322 |
| **Gender** | **1** | **2** | 1 | 0.2074 | 0.0668 | 9.6434 | 0.0019 |
| **Gender** | **1** | **3** | 1 | -0.0188 | 0.0846 | 0.0495 | 0.8239 |
| **Region\_Char** | **Northeast** | **2** | 1 | 0.0163 | 0.1293 | 0.0160 | 0.8994 |
| **Region\_Char** | **Northeast** | **3** | 1 | -0.1941 | 0.1599 | 1.4729 | 0.2249 |
| **Region\_Char** | **South** | **2** | 1 | -0.3460 | 0.1166 | 8.8068 | 0.0030 |
| **Region\_Char** | **South** | **3** | 1 | -0.1009 | 0.1350 | 0.5588 | 0.4547 |
| **Region\_Char** | **West** | **2** | 1 | 0.1213 | 0.1277 | 0.9031 | 0.3420 |
| **Region\_Char** | **West** | **3** | 1 | 0.2162 | 0.1499 | 2.0807 | 0.1492 |
| **Race** | **2** | **2** | 1 | 0.4103 | 0.1989 | 4.2557 | 0.0391 |
| **Race** | **2** | **3** | 1 | 0.1633 | 0.2376 | 0.4725 | 0.4918 |
| **Race** | **3** | **2** | 1 | -0.0514 | 0.2493 | 0.0424 | 0.8368 |
| **Race** | **3** | **3** | 1 | 0.0751 | 0.2851 | 0.0694 | 0.7922 |
| **Race** | **4** | **2** | 1 | -0.1101 | 0.3677 | 0.0897 | 0.7646 |
| **Race** | **4** | **3** | 1 | 0.3969 | 0.3804 | 1.0884 | 0.2968 |
| **Race** | **5** | **2** | 1 | -0.3082 | 0.2967 | 1.0787 | 0.2990 |
| **Race** | **5** | **3** | 1 | -0.6439 | 0.3733 | 2.9755 | 0.0845 |
| **Party** | **D** | **2** | 1 | -0.0436 | 0.0615 | 0.5018 | 0.4787 |
| **Party** | **D** | **3** | 1 | -0.1838 | 0.0713 | 6.6528 | 0.0099 |
| **Seat\_Type** | **1** | **2** | 1 | -0.0149 | 0.0689 | 0.0465 | 0.8292 |
| **Seat\_Type** | **1** | **3** | 1 | -0.2810 | 0.0828 | 11.5205 | 0.0007 |
| **Incumbent** | **y** | **2** | 1 | -0.2697 | 0.0798 | 11.4340 | 0.0007 |
| **Incumbent** | **y** | **3** | 1 | -0.9332 | 0.1306 | 51.0617 | <.0001 |

| **Odds Ratio Estimates** | | | | |
| --- | --- | --- | --- | --- |
| **Effect** | **ConvOrd** | **Point Estimate** | **95% Wald Confidence Limits** | |
| **Region\_Char Northeast vs Midwest** | **2** | 0.825 | 0.566 | 1.203 |
| **Region\_Char Northeast vs Midwest** | **3** | 0.761 | 0.477 | 1.215 |
| **Region\_Char South vs Midwest** | **2** | 0.575 | 0.412 | 0.802 |
| **Region\_Char South vs Midwest** | **3** | 0.836 | 0.570 | 1.224 |
| **Region\_Char West vs Midwest** | **2** | 0.917 | 0.622 | 1.352 |
| **Region\_Char West vs Midwest** | **3** | 1.147 | 0.728 | 1.808 |
| **Race 2 vs 1** | **2** | 1.420 | 0.944 | 2.138 |
| **Race 2 vs 1** | **3** | 1.167 | 0.712 | 1.913 |
| **Race 3 vs 1** | **2** | 0.895 | 0.505 | 1.588 |
| **Race 3 vs 1** | **3** | 1.069 | 0.556 | 2.054 |
| **Race 4 vs 1** | **2** | 0.844 | 0.347 | 2.055 |
| **Race 4 vs 1** | **3** | 1.474 | 0.594 | 3.662 |
| **Race 5 vs 1** | **2** | 0.692 | 0.345 | 1.388 |
| **Race 5 vs 1** | **3** | 0.521 | 0.214 | 1.264 |
| **Party D vs R** | **2** | 0.917 | 0.720 | 1.166 |
| **Party D vs R** | **3** | 0.692 | 0.524 | 0.916 |
| **Seat\_Type 1 vs 0** | **2** | 0.971 | 0.741 | 1.272 |
| **Seat\_Type 1 vs 0** | **3** | 0.570 | 0.412 | 0.789 |
| **Incumbent y vs n** | **2** | 0.583 | 0.427 | 0.797 |
| **Incumbent y vs n** | **3** | 0.155 | 0.093 | 0.258 |