

Demo: Fitting a Binary Logistic Regression Model Using the Binary Logistic Regression Task

Use the Binary Logistic Regression task to fit a binary logistic regression model and characterize the relationship between **Basement_Area** and the categorical response, **Bonus**. Model the probability of being bonus eligible, and request profile likelihood confidence intervals for the estimated odds ratio.

- 1. In the Navigation pane, select Tasks and Utilities.
- 2. Expand Tasks.
- 3. Expand Statistics and open the Binary Logistic Regression task.
- 4. Select the **stat1.ameshousing3** table.
- 5. Assign **Bonus** to the Response role, and use the Event of interest drop-down list to specify **1**.
- 6. Assign **Basement_Area** to the Continuous variables role.
- 7. On the MODEL tab, verify that **Main effects model** is selected.
- On the OPTIONS tab, in the Select statistics to display drop-down list, select **Default and additional statistics**.
- Expand the Parameter Estimates property. In the Confidence intervals for odds ratios drop-down list, select Based on profile likelihood.
- 10. Expand **PLOTS**, and in the Select plots to display drop-down list, select **Default and additional plots**.
- 11. Select Effect plot and Odds ratio plot.
- 12. Click Run.

Generated Code

Copyright © 2019 SAS Institute Inc., Cary, NC, USA. All rights reserved.