**Methodology**

**Dependent Variable**

Fairness of inspector decisions

**Sample Size**

Original Size: 154

After removing blanks: 153

**Notes**

Logistic Regression between GAM data

Clean data: 105 remaining

Model of Best Fit: 2.1-7, Dep. Variable 2.10

Logistic Regression

**Analysis**

Ran a backwards stepwise regression first to determine the best model, but I ran an all best subsets model to verify the results found in the first regression. From all best subsets model, the best one to use was either the one that had the performance and frequency variables or the one with legal awareness, performance, and frequency.

**Calculations**

**Calendar

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Table

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Chart, bubble chart

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**GAM Data**

1. Found correlation with all variables, including dependent factors
2. Ran an all subset model to determine the best possible model to use
   1. Since the adjusted r-squared was low, I looked at AIC, BIC and APC (Amemiya’s prediction criteria) to find the models that had the lowest values (Model 2,3,4)
3. Ran a logistic regression with the best model from the previous step
   1. The logistic regression showed that the model 2 was the best.
4. Run a prediction model from the logistic regression and compare it to the actual distribution