

## Interpreting the FireFamilyPlus Fires Analysis: Goodness of Fit Tests

Our goal is to rate models (indexes) by reviewing the following statistical results.

### 1. Goodness of Fit

#### a. Chi Squared: Lower is better.

*The following values apply only to the logistic regression used in FireFamilyPlus.*

- 0 is a perfect fit,
- <13 is excellent,
- <20 is good,
- >26 is not so good.

### 2. Analysis Variable Ranges

#### b. An **Analysis Variable** with a large range allows more flexibility in setting thresholds for fire business decisions.

- For example, a range of 0-45 may allow more flexibility (or “Decision Space”) than a range of 0-2.