**Example 1: Butter Clams**  
Open **butterclams.csv**. This worksheet contains data on the length and width (both in centimeters) of 88 Puget Sound butter clams. We want to use the width of the clams to model (predict) the length of the clams.

1. Fit a regression model to predict the length using width. Examine a plot of the residuals. Sketch the residual plot below. What problem do you see (if any)?

**Example 2: Blue Gills**  
Open **bluegill.csv**. We are interested in predicting the mercury concentration (in parts per million) in blue gills using their age (in months).

1. Fit a regression model for predicting mercury concentration from age. Examine a plot of the residuals and sketch the plot below. What problem do you see (if any)?

**Example 3: Starbucks Drinks**  
Open **Starbucks.csv**. We are interested in predicting the calorie content using the fat content (in grams).

1. Fit a regression model for predicting calorie content using the fat content (in grams). Examine a plot of the residuals and sketch the plot below. What problem do you see (if any)?