Homework 5

Assigned: 26 September 2005
Due: 03 October 2005

1. Refer to the 4 group (packaging method)- log-bacterial growth study. In this exercise, you will use SAS/GRAPH to construct figures displaying the means and standard deviations.

   a. Construct a figure containing side-by-side boxplots using the INTERPOL=BOX option associated with a SYMBOL statement used with PROC GPLOT.

   b. Construct a figure with the data points plotted. Superimpose the mean plus/minus 2 std. deviation segments on this plot.

   c. Construct a horizontal bar chart with the end of the bar at the value of the mean with a 1 SD whisker extending from this bar.

2. Refer to the nitrofen data. Generate a plot of the nitrofen data (sqrt total as response) vs. concentration. Superimpose the fitted quadratic model. Only use GPLOT to generate this figure – i.e. don’t use PROC REG to generate fits first, I want you to use the SYMBOL INTERPOL reg options.

3. Refer to the nitrofen data. Fit a polynomial regression model (center the concentration variable). Use ODS GRAPHICS to generate graphical summaries of this analysis

4. Find a data set that interests you and generate a display that best represents it using SAS/GRAPH.