

## **Stat 328 Lab 3 Summer 2002**

### **Estimation of a Population Standard Deviation**

In class Vardeman presented the chi-square confidence limits for  $\sigma$ . Return to the 1991 mutual fund expense ratio data on Lab 2 and use the method presented in class to make 90% confidence limits for the standard deviation of mutual fund expense ratios in 1991.

### **Chapter 4 of Moore**

The CD that accompanies the Moore text has an optional Section 4.4 on it. This section is about "control charts" for process monitoring. Print that section and do Problem 4.69. Compare your conclusions based on  $\bar{x}$  and  $s$  control charts (based on 6-month periods) to the story told on the side-by-side box plots of Figure 1.29 (based on 12-month periods).

### **Chapter 2 of Moore**

Problems 2.7, 2.15, 2.22, 2.27, 2.28, 2.34, 2.45, 2.54, 2.59, 2.93

Use JMP to do your calculations in 2.45.

Where Moore provides a Minitab printout to support his exercises, get a parallel JMP report that could also be used.