Math 160/263 Minitab Assignment # 2 - Unix Version

Chapter 1 - Describing Distributions

Worksheet Name - data2.MTW

1. The average annual income in 1999 of workers in the fifty states and the District of Columbia are given in data2.MTW.

   (a) Make a **STEMplot** of the data.

   (b) Use the **DESCribe** command to find the mean and median of the distribution.

   (c) What feature of the distribution explains the relationship between the mean and median?

   (d) Which, if any, observations are suspected outliers?

   (e) Approximately what average annual income would place a state in the top 25%?

   (f) Approximately what average annual income would place a state in the bottom 25%?

   Source:
   2001 Statistical Abstract of the United States

2. The counts of major hurricanes for each year between 1944 and 2000 are also given in data2.MTW.

   (a) Make a **HISTogram** of the data.

   (b) Briefly describe the shape of the distribution.

   (c) Make a **TSPLot** of the data.

   (d) Does there appear to be any long term trend in the number of major hurricanes per year during the period 1944 to 2000? Explain.

   Source:
   Moore, David S. & George P. McCabe, *Introduction to the Practice of Statistics*, 4th ed., W.H. Freeman & Company, 2002, p. 35.