M119   Exam Chapters 1-2 Do-At-Home Part
P Staley

Each student has been assigned an English text selection to analyze (instructions for getting your assigned text are below). For this exam we are concerned with word length and letter frequency.

For your individual text selection, do the following:
1. Make a histogram of the word lengths (use a bin width of 1).
2. Compute the five-number summary for word lengths.
3. Make a box plot of word lengths.
4. Compute the mean, variance, and standard deviation of the word lengths.
5. Make a Pareto chart of the letter occurrences, i.e. how many times each letter occurs.

You have also been assigned a city. Go to the website www.cityrating.com click on Weather History and find the weather history for your assigned city.
6. Make a time plot of the average monthly temperature for your assigned city.

How to get your specific data:
Go to the www.staley-classes.org website. In the Statistics column there should be a link called Exam 1 Do-At-Home Data. Open that page and then next to your student ID number you will find a hyperlink for your text and a city name. Use the text link for 1-5 above. Count apostrophes as one letter, hyphens as zero letters, and ignore numbers. Use the city link for #6 above.

Recommendations:
Using Excel for this project is optional. If you choose to use Excel there are several **helpful movies** on the www.staley-classes.org website on pages:
Chapter 1 Stuff (http://www.mr-ideahamster.com/classes/stats/M119%20C01.htm)
and
Chapter 2 Stuff (http://www.mr-ideahamster.com/classes/stats/M119%20C02.htm)
and for working with text in Excel:
Excel Suggestions (http://www.mr-ideahamster.com/classes/stats/movies/textanalysis_1-excel/textanalysis_1-excel.html).

Part of the scoring will be based on neatness, comprehensibility, quality of your labeling, etc.