

## STA 205 StatCrunch Example for Histograms and Descriptive Statistics

In this example we will demonstrate how to obtain a histogram of the data, sort the sample data, and obtain descriptive statistics. These procedures will be useful for the materials discussed from Chapters 2 and 3. The data for this example come from Chapter 2, Section 3, Exercise 7, on page 34.

To enter the data into the spread-sheet use:

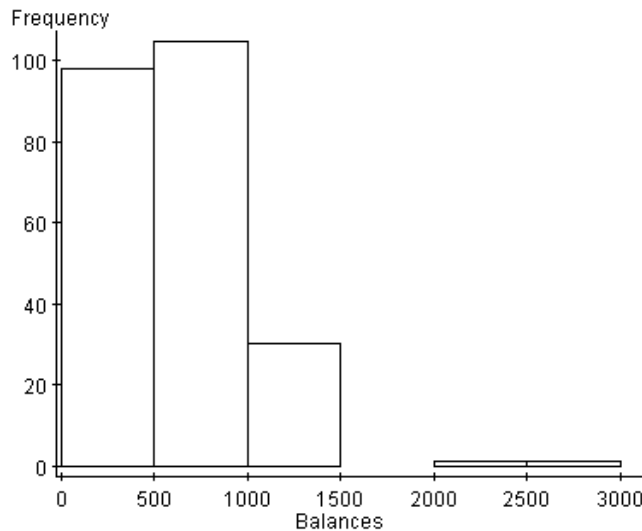
**Data** ► **Load data** ► **From WWW**  
WWW address: <http://www.nku.edu/~statistics/data/c02s03e07.xls> ► **OK**

The data are now in the first column named “Balances”.

To obtain a histogram of the data use:

**Graphics** ► **Histogram**  
**Select Columns: Balances** ► **Create Graph**

The histogram of the data, shown below, will appear in its own window. The histogram should be copied to a word processing document, and saved. How to do this will be explained with the next handout.



To obtain a sorted list of the data in the spread-sheet use:

**Data** ► **Sort Column**  
**Select Columns: Balances** ► **Sort Columns**

The data sorted for the smallest to largest value are now in the second column of the spread-sheet, and are named “Sort(Balances).”

To obtain descriptive statistics for the 235 balances use:

**Stat** ► **Summary Statistics** ► **Columns**  
**Select Columns: Balances** ► **Calculate**

### Summary statistics:

Column	n	Mean	Variance	Std. Dev.	Std. Err.	Median	Range	Min	Max	Q1	Q3
Balances	235	617.4894	145441.39	381.3678	24.877691	565	2614	7	2621	373	806