R code: Documentation for the Histogram of Expected Profit

somePDFPath = "/home/meteo/sdg152/Meteo\_473/MS3/MS3\_Hist.pdf" #opens a path to the PDF   
pdf(file=somePDFPath)                                 #the PDF we save it to  
sink("MS3\_Hist",append=F)                             #clears the PDF

This part of the R program opens a path to the PDF, and gives the file a name and names the FileHandle. The sink command is how we can write something to the file. Append=F means to overwrite the current contents. Append=T would mean to add onto the current contents.

x=read.table("/home/meteo/sdg152/Meteo\_473/MS3/nws3.txt", header=T) #puts the textfile in x  
attach(x) #to use the headers

We set up a table with our perl code, date and expected profit. For each hour of each day, one item is added to the text file. This code pulls the information from that textfile, and puts it in the variable x and includes the header. Attach(x) allows me to call the information by the header name.

hist(ExpectedProfit, freq = F, main = "Histogram of Expected Profit", col = "grey")#histogram area = 1  
lines(density(ExpectedProfit), col = "red")                    # smooth histogram

These lines print the Histogram and the smooth Histogram.

dev.off()                                    #close the PDF

This line closes the PDF.

A copy of the code in action and the output are on the following page.

