

PREFACE

This manual is designed to aid the reader in using the TI-83/84 Plus graphing calculator to solve statistical problems. It is not meant to show the only way to solve these problems. Specifically, the manual is designed to be used with *Statistics*, 12th Edition and *A First Course in Statistics* 11th Edition by James T. McClave and Terry Sincich (Boston, Massachusetts: Pearson). However, it can be used to supplement any textbook covering basic statistical topics.

It is expected that the student will learn and understand the reasoning behind the computations and that the TI-83/84 Plus will then be used to decrease the time spent on computation and increase the time spent on statistical reasoning and analysis. Most of the basic statistical computations are built into the TI-83/84 Plus. The TI-83/84 Plus also has random number generators for several distributions that can be used to model random samples and further explore statistics.

The manual begins with an introduction to the basic commands of the TI-83/84 Plus in Chapter 1. The chapters then follow the development of topics in the textbook *Statistics*, making it very easy to use as a supplement. Each procedure is demonstrated with examples and exercises from the textbook illustrating how to use the relevant TI-83/84 Plus procedures. Throughout this manual, data sets contained in exercises and examples have been used. The examples and exercises in this manual are numbered to correspond with the examples and exercises in *Statistics*, making it possible to compare the textbook solution with the solution obtained using the TI-83/84 Plus. For those students using *A First Course in Statistics*, a correlation guide is provided to outline the association between the two texts. Although many of the basic statistical computations are built into the TI-83/84 Plus, there are still some hypothesis tests which are not built in. These include the nonparametric hypothesis tests which are covered in chapter 14. Thus, this manual does not contain chapter 14.

Data sets to accompany exercises and examples can be found at www.pearsonhighered.com/mathstatsresources.

I want to thank James T. McClave and Terry Sincich for writing a first-rate textbook and for allowing the use of textbook examples and exercises in this manual. I would like to thank all the people at Pearson for their efforts and support. I especially wish to thank Dana Jones Bettez and Joe Vetere for their direction and advice in the writing of this manual.

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