

Elementary Statistics in Social Research

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Elementary Statistics in Social Research

UPDATED TWELFTH EDITION

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Preface

New to this Edition

- A sample test of mean and a nonparametric tests of differences have been added.
- New discussions on coefficient of variation, non-sampling errors, meta-analysis, elaboration, and effect size.
- Expanded discussions of Non-Sampling Error, Standard Error, Partial Correlation, and Multicollinearity
- Expanded discussion on a number of critical concepts, such as the meaning of the standard error and multiple regression.
- Expanded number of end-of-chapter problems, with worked out solutions provided in the student and instructor supplements.
- Includes a special data subset from the 2010 General Social Survey for optional computer-based problems.
- Updated Examples and Exercises throughout the text

The updated twelfth edition of *Elementary Statistics in Social Research* provides an introduction to statistics for students in sociology, criminal justice, political science, social work, and related fields. This book is not intended to be a comprehensive reference work on statistical methods. On the contrary, our first and foremost objective is to be understandable to a broad range of students, particularly those who may not have a strong background in mathematics.

Through several editions, *Elementary Statistics in Social Research* has undergone refinements and improvements in response to instructor and student feedback. For this revision, we have added several new techniques, including meta-analysis (Chapter 1), coefficient of variation (Chapter 4), one sample test of means and effect size (Chapter 7), Mann-Whitney U test and Kruskal-Wallis test (Chapter 9), logistic regression (Chapter 11), and elaboration (Chapter 12). We have expanded the discussion of several topics, including non-sampling error, standard error, partial correlation, and multicollinearity. We have updated examples and exercises throughout the text. Finally, the supplementary computer exercises in this edition utilize a subset of the 2010 General Social Survey (GSS) available for download from <http://www.pearsonhighered.com>. For those instructors who do not teach with computer software, however, this feature can be easily excluded.

This edition continues to contain a number of pedagogical features. Most notably, detailed step-by-step illustrations of statistical procedures continue to be located at important points throughout the text. In addition, this edition of the text offers guidance in the form of “hands-on” activities introduced at key points. These activities allow the student to walk through examples of important concepts at their own pace. Tips and solutions are offered to help the student understand each step in the process. We have again attempted to provide clear and logical explanations for the rationale and use of statistical methods in social research. And, as in the earlier editions, we have included a number of end-of-chapter questions and problems.

Following a detailed overview in Chapter 1, Chapters 2 through 4 introduce the student to the most common methods for describing and comparing data. Chapters 5 and 6 serve a transitional purpose. Beginning with a discussion of the basic concepts of probability, Chapters 5 and 6 leads the student from the topic of the normal curve as an important descriptive device to the use of the normal curve as a basis for generalizing from samples to populations. Continuing with this decision-making focus, Chapters 7 through 9 contain several well-known tests of significance. Chapters 10 through 12 include procedures for obtaining correlation coefficients and an introduction to regression analysis. Finally, Chapter 13 gives students the opportunity to learn, through examples, the conditions for applying statistical procedures to various types of research problems.

The text provides students with background material for the study of statistics.

We realize that students sometimes get lost in the trees of statistics, without seeing the forest. To counter this tendency, Appendix A, “The Social Research Process in Practice” offers additional scenarios that carry the student through the entire research process based on hypothetical data.

In addition, a set of statistical tables, a review of basic mathematics, and a list of formulas are located in appendixes at the end of the book. Students will also find a glossary of terms and answers to the end-of-chapter problems at the end of the book.

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- **PowerPoint Presentation:** provides a core template of the content covered throughout the text. Can easily be added to customize for your classroom
- **Instructor Manual:** includes chapter outline and summary, learning objectives, key terms and class activities.

- **Test Bank:** includes additional questions beyond the REVEL in multiple choice, short answer response and truth and false formats.
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Elementary Statistics in Social Research

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