

AcaStat

About AcaStat Software

Designed by an instructor, AcaStat Software products help students apply basic analytical techniques while building skills for more sophisticated but expensive statistical tools such as SAS, SPSS, and STATA. In addition to being an instructional aid, many users of AcaStat Software are researchers and managers who employ the software as a desktop analytical tool.

What is AcaStat?

AcaStat is a Windows-compatible data analysis software package that provides students, teachers, researchers, and managers with an affordable and easy to use data exploration tool. Use AcaStat to analyze raw data or to evaluate summary statistics generated and reported by others such as means, counts, and proportions.

Key Benefits

AcaStat's intuitive design handles your analytical needs without user programming or formal software instruction. Create crosstabulations, descriptive statistics, and summary report tables for survey data. Copy data from spreadsheets, database tables, import text files, or enter data directly into the AcaStat spreadsheet to quickly produce statistical analyses. Exporting output and data is as simple as clicking a button. AcaStat includes one-click application and statistics help modules.

Pricing

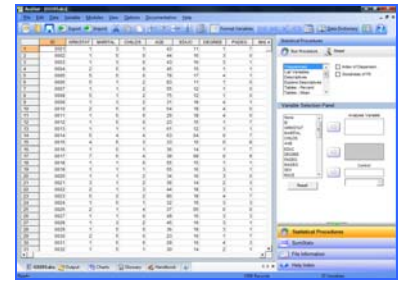
In addition to the free Special Edition and affordable retail prices, special academic pricing, free academic site licenses, and quantity discounts are available.

System Requirements

- ❖ Windows98/NT/XP/VISTA
- ❖ Pentium 700mhz/128 MB RAM
- ❖ Download file 15 MB

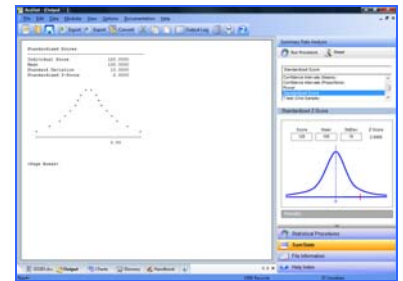
Data Grid

Analyze raw data with this spreadsheet design. Produces descriptive and inferential statistics, creates crosstabulations, and summary report tables. Includes t-test, one-way ANOVA, chi-square, correlation, simple and multiple regression. Export data directly to Excel. Run sampling simulations.



SumStats

Analyze summary statistics, develop confidence intervals, and conduct significance tests. Produces margins of error for proportions and means, standardized scores, t-tests, z-tests for proportions, one-way ANOVA, and chi-square. Easily copy, paste, or print output.



Output Log

Automatically stores analyses for viewing, printing, and saving. Keeps a running record of all analyses. Print, save as text file, or use the one-click export to send directly to Microsoft Word

Test	Statistic	Decision
t-test	1.234	Fail to reject H0
ANOVA	5.678	Reject H0
Chi-square	9.012	Fail to reject H0
Correlation	0.345	Significant
Regression	0.789	Significant

Decision tools

Introductory tools and examples for using decision tables, estimating constant dollars, exploring price elasticity of demand, and evaluating waiting lines (queuing theory).

Number of Servers	Cost	Waiting Time
1	100	10.0
2	200	5.0
3	300	3.3
4	400	2.5
5	500	2.0

Glossary

Note database for easy storage and retrieval. A statistics glossary of terms and definitions is provided. Edit and add new terms and definitions. Create your own database of terms and notes or store output from analyses.

Term	Definition
Mean	The average of a set of numbers.
Standard Deviation	A measure of the spread of a set of numbers.
Hypothesis Testing	A method of testing a claim about a population parameter.

Handbook

HTML statistics reference. Outlines hypothesis testing and provides formulas and examples of hand calculations for common statistical tests. The Licensed Edition includes a much more detailed 170 page Applied Statistics Handbook in pdf format.

Chapter	Topic
1	Descriptive Statistics
2	Inferential Statistics
3	Hypothesis Testing
4	Regression Analysis
5	Quality Control

Product Overview

AcaStat includes two data analysis modules (Data Grid and SumStats) and three support modules containing analysis output (Output Log) and instructional material (Glossary, Handbook). Free documentation and educational materials are also available.

Data Grid Features

- Spreadsheet edit capacity 200,000 data cells
- Import delimited text files, paste tables from other software such as Microsoft Excel and Access
- Export comma and tab delimited text files for use by other software
- Split large data files into smaller files by selecting key variables for creating a subset data file
- Create variable and value labels, format decimal rounding, set missing values
- Variable manipulation includes compute new variable, combine variables, trim extreme values, compare dates, and recode variables
- Copy and paste data from spreadsheets, documents, and database tables; use import paste feature to automate spreadsheet setup and data importing
- Univariate statistics include frequencies tables, (count, percent, total); list observations; descriptives (mean, median, etc.); diagnostic accuracy (sensitivity, specificity, etc.); save z-scores
- Crosstabulations provide count, row %, col %, total %
- Summary reports present survey results or summary measures using percents, counts, means and measures of dispersion
- Statistical tests include t-tests, one-way ANOVA, chi-square (includes Cramer's V, Pearson C, Lambda, Kappa)
- Pearson correlation, simple and multiple regression (OLS and Logistic); save residuals and predictive values
- Charts include histogram, scattergram, column, pie
- Simulation module creates single random samples of a data set or repeated random sampling; adjustable settings for number of iterations and sample size
- Control option is available for all procedures that allows users to hold the value of a one variable constant

SumStats Features

- Statistical tests include one and two sample t-test of means; one-way ANOVA (4 sample); one and two sample z-test of proportions; chi-square (5x5 table)
- Margin of error and 90%-95%-99% confidence intervals for means and proportions
- Standardized scores (z-score) and graphic representation on normal distribution
- Diagnostic accuracy measures include sensitivity, specificity, positive predictive value, positive likelihood ratio, negative likelihood ratio predictive value, negative
- Sample estimator conducts power analysis for the difference between two proportions (z-tests) and two means (t-tests)
- One-button output snapshot for pasting and printing
- Module-specific instructions are presented and are replaced after a calculation with a summary and interpretation of the results.

Documentation

AcaStat has three manuals: User Manual, Student Workbook, and the Applied Statistics Handbook. They are electronic files in Adobe Acrobat Reader (pdf) format. The Applied Statistics Handbook is included with the Licensed Edition. To read these files, Adobe Acrobat Reader version 6.0 or later must be installed on your computer. Visit the following link for more information: <http://www.acastat.com/pdfdocs.htm>.

User Manual

Contains instructions on how to use AcaStat.

File Name: UserManual.pdf

Availability: Download, AcaStat CD, Website

Student Workbook

Over 20 lessons designed to introduce basic statistical concepts while also demonstrating the functionality of DataCalc and StatCalc

File Name: Workbook.pdf

Availability: Download, AcaStat CD, Website

Applied Statistics Handbook

Contains formulas, definitions, examples, and practice exercises to support the AcaStat statistical procedures.

File Name: Statbook.pdf

Availability: Licensed Edition or purchase separately

AcaStat Order Form

4/19/2009

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AcaStat Software
43584 Merchant Mill Terrace
Leesburg, VA 20176 USA

<http://www.acastat.com>
info@acastat.com