

# WINKS SDA Features

- **BASIC & PROFESSIONAL** editions available
- Intuitive **spreadsheet data entry**
- **Opens & saves Excel Files** (also works with SDA, CSV and DBF files)
- Perform analyses **using summary or raw data** — analysis from summary data includes t-tests, ANOVA, crosstabulations (Chi-Square/Fishers), goodness of fit, Kappa, Pareto charts, car & pie charts, multiple comparisons, Dunnett's, proportions, Mantel-Haenszel, etc.
- Recode data, calculate new variables, filter variables for analysis, select random sample, sort data, create indicators variables
- Analysis **output includes hypotheses tested** and interpretations that **help you understand the results**

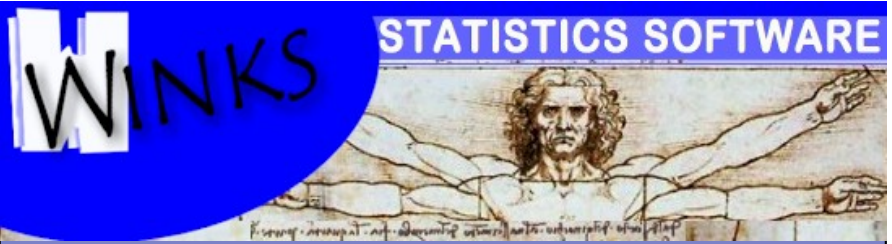
## WINKS SDA BASIC EDITION

- **Descriptive statistics** (mean, std dev, median, coeff of variation, skewness, kurtosis, percentiles, normality test, confidence intervals plus Cp & Cpk values (QC))
- **Statistics by group**, statistics from raw data or counts
- Perform many analyses from **raw or summarized data**
- **Graphs & Charts:** Histograms, bar, pie, line charts, box plots, time series plots, stem and leaf, scatterplot, regression line, matrix of scatterplots, etc. — plus create **Excel charts** directly from WINKS
- **t-tests** -- single sample, two group, paired
- **One-Way ANOVA** with multiple comparisons (Newman-Keuls, Scheffe, Tukey, Dunnett's)
- **Repeated Measures ANOVA** with multiple comparisons
- **Categorical analysis:** Frequencies, Goodness of fit, **Crosstabulation (rc)** Chi-Square analysis, **Fisher's Exact** test, Cochran's Q, McNemar's test
- **Correlation** - Pearson, Spearman, Point biserial
- Comparison of **proportions**
- Simple & multiple **linear regression** with graphs
- **Nonparametric procedures:** Mann-Whitney, Kruskal-Wallis (multiple comparisons), Wilcoxon signed rank, Sign test, Friedman's test (with multiple comparisons)
- **Survival analysis**—Actuarial and Kaplan Meier life tables -- Mantel Haenszel group comparisons
- **Simulations** -- Probability/Coin flip, Central limit theorem, confidence interval simulation
- **P-value**— Z, t, Chi-Square and F statistics

## WINKS SDA PROFESSIONAL EDITION

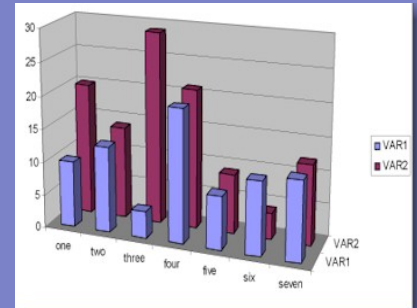
- **Advanced Tabulation**—breakdown up to three factors with selected statistics included in each cell
- The **Mantel-Haenszel** procedure of multiway tables
- **Inter/Rater Reliability** analysis including Kappa and Weighted Kappa
- **Two Factor Analysis of Variance** — unbalanced data with graphs and post hoc comparisons
- **Two-way ANOVA with Repeated Measures** includes graphs and post hoc tests
- **Analysis of Covariance (ANCOVA)** includes graphs and post hoc tests
- **Three-Way ANOVA** analysis
- **Polynomial Regression** up to 6th order
- **Stepwise regression** for multiple linear regression
- **All possible subsets regression** procedure
- **Logistic Regression** -- fit up to 10 independent variables, with odds ratios with 95% CI.
- **Bland-Altman plots** compares two similar measures.
- **Multiple comparisons** (Newman-Keuls, Tukey HSD, or Scheffé), custom post hoc multiple comparison
- **Time series analysis** — autocorrelations, partials, differencing, forecasting, graphs
- **Quality Control charts and procedures** — X-Bar, R & S-Charts, EWMA, MR-Charts, I-Charts and P-Charts.
- **Pareto Charts** with a by-group feature

\* WINKS is WInDows KwikStat

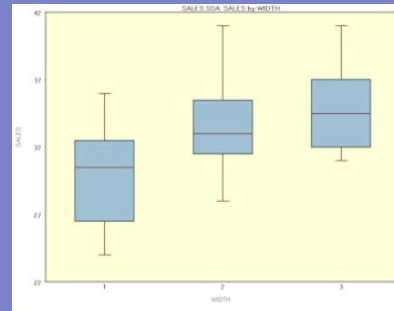


	FEED	WEIGHT	%var	%var	%var
1	1	60.8			
2	1	67.0			
3	1	54.6			
4	1	61.7			
5	2	78.7			
6	2	77.7			
7	2	76.3			
8	2	79.8			
9	3	92.6			
10	3	84.1			
11	3	99.5			

Intuitive spreadsheet data handling.



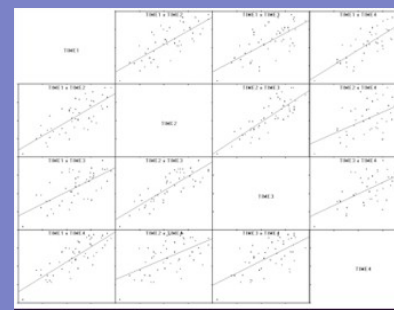
Auto-create WINKS graphs in Excel.



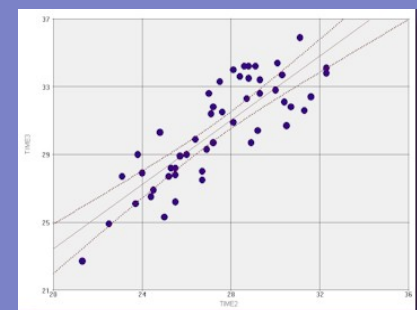
Box & Whiskers plot comparisons

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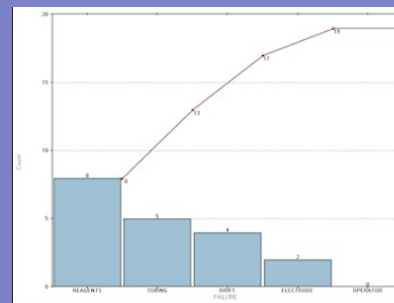
Analysis from summary data made easy



Scatterplot matrix



Regression plots & confidence bands



Other analyses & graphs

Group Means and Standard Deviations  
 1: mean = 25.4 s.d. = 3.7815 n = 5  
 2: mean = 47.1667 s.d. = 11.9369 n = 6  
 Mean Difference = -21.76667 S.E. Difference = 5.16602  
 Independent Group t-test Hypotheses  
 H0: There is no difference between means.  
 Ha: The means are different.  
 Independent Group t-test on OBS  
 Equal variance: t = -3.88 with 9 D.F. p = 0.004 (two-tail)  
 Unequal variance: t = -4.21 with 6.2 D.F. p = 0.005 (two-tail)  
 Confidence Interval  
 A 95% CI about the mean difference is: (-33.4575 to -10.0759)

Understandable output

WINKS SDA Statistical Data Analysis Software provides solid statistical data analysis with output that includes hypotheses tested & interpretation of results — suggestions to help you write up results in correct format for reports or journal articles — Excel-like data handling & graphs and more...



## Statistical Software for Research

WINKS is an **affordable, practical and reliable** tool for researchers in any scientific, business, governmental or industrial discipline.

**Well thought-out:** We sat down with researchers and designed WINKS SDA Statistical Data Analysis to meet *your* data analysis needs. The result is an intuitive, easy to learn program packed with professional procedures.

**Rich list of capabilities:** Whether you are using simple statistical methods or performing complex analyses, WINKS provides you with quick answers, understandable output and graphs that explain your results. In fact, many of the procedures include output that **shows you how to write up your results in APA or other acceptable formats.**

**Use summary or raw data:** WINKS can use either summary or raw data for many procedures (unlike some of the more expensive mega-programs.) For over 20 years, WINKS has been trusted by thousands of researchers in over 60 countries as evidenced by **numerous scientific journal articles referencing WINKS** software (see citations listed on the website.)

**WINKS is affordable.** Choose from the WINKS Basic Edition for only \$99 that includes many statistical procedures commonly used in data analysis. Or, choose the Professional Edition that includes all of the BASIC features *plus* advanced statistical procedures for only \$229. Discounts are available for multiple copy purchases and for student editions.

**Numerous examples:** The 224 page WINKS manual is packed with hand-holding examples that teach you how to use WINKS.

**Risk free:** Try WINKS without obligation with our 30 day return guarantee.

For more information, go to the web site at [www.texasoft.com](http://www.texasoft.com).

