

www.PracticalStats.com		Courses and info on applied environmental statistics								
Task	NCSS Dix	Stat Tools	xISTAT mac	Winks Pro	StatPlus	Analyze-It	WinSTAT	StatistiXL	Fast Statistics	
COST	\$599	\$595	\$445	\$229	\$200	\$185	\$99	\$75	\$50	
desc. stats incl. pctlles	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Confidence intervals	✓	✓	✓	✓	✓	✓	NO	✓	NO	
Prediction intervals	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Tolerance intervals	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bootstrap intervals	✓	NO	NO	NO	NO	NO	NO	NO	NO	
Test for normality (which?)	SW, others	chisq, Lilliefors	SW, AD, KS	KS	SW, KS	SW, AD, KS	KS, chisq	NO	chisq	
Side by Side Boxplots	✓	✓	✓	✓	✓	✓	✓	NO	NO	
probability plot	✓	✓	✓	✓	NO	✓	NO	NO	✓	
Performs 1-sided tests	✓	✓	✓	NO	✓	✓	NO	✓	✓	
Paired t-test	✓	✓	✓	✓	✓	✓	✓	✓	✓	
sign test	✓	✓	✓	✓	✓	✓	NO	✓	✓	
signed-rank test	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2-sample t-test	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Mann-Whitney rank-sum	✓	✓	✓	✓	✓	✓	✓	✓	KW on 2 gps	
Levene's test	✓	NO	✓	NO	NO	NO	NO	NO	NO	
squared-ranks test	NO	NO	NO	NO	NO	NO	NO	NO	NO	
ANOVA	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Kruskal-Wallis	✓	NO	✓	✓	incorrect	✓	✓	✓	✓	
Tukey's mult compar	✓	✓	✓	✓	✓	✓	✓	✓	NO	
Dunns MCT	✓	NO	✓	NO	NO	NO	NO	NO	NO	
Power and sample size	\$\$	NO	NO	NO	NO	NO	NO	NO	NO	
Kendall's tau	NO	NO	NO	NO	✓	✓	✓	NO	NO	
Sen slope	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Spearman's rho	✓	NO	✓	✓	✓	✓	✓	✓	NO	
Pearson's r	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Residuals plot	✓	✓	✓	NO	NO	✓	NO	✓	NO	
Save regress residuals	✓	✓	✓	NO	✓	NO	NO	✓	✓	
Save regress predictions	✓	✓	✓	NO	✓	NO	NO	✓	✓	
Partial plots	✓	NO	NO	incorrect	NO	NO	NO	✓	NO	
Mult regress on non-sequential columns	✓	✓	NO	✓	✓	✓	✓	NO	✓	
Cp/PRESS/AdjRsq	PRESS AdjRsq	NO	✓	Cp, AdjRsq	AdjRsq	✓	NO	NO	NO	
VIF	✓	NO	✓	NO	NO	NO	NO	NO	NO	
Macro capability	✓	NO	NO	NO	NO	NO	NO	NO	NO	
LOWESS	NO	NO	✓	NO	NO	NO	NO	NO	NO	
save resids from LOWESS	NO	NO	✓	NO	NO	NO	NO	NO	NO	
Contingency tables	✓	✓	✓	✓	doesn't work?	✓	✓	✓	✓	
Logistic regression	✓	✓	✓	✓	✓	NO	NO	NO	NO	
Equivalence tests	NO	NO	NO	NO	NO	NO	NO	NO	NO	

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PCA	✓	NO	✓	NO		NO	✓	✓	NO
Cluster analysis	✓	NO	no dendogram	NO		NO	✓	✓	NO
Correspondence analysis	✓	NO	✓	NO		NO	NO	NO	NO
Factor analysis	✓	NO	✓	NO		NO	✓	✓	NO
NMDS plots	✓	NO	MDS only	NO		NO	NO	NO	NO
Biplots	✓	NO	✓	NO		NO	NO	NO	NO
Discriminant analysis	✓	✓	✓	NO		NO	✓	✓	NO
Canonical correlation	✓	NO	\$\$	NO		NO	NO	✓	NO

Key

- ✓ feature present
- NO feature absent
- incorrect feature present but appears incorrect
- SW Shapiro-Wilk test
- AD Anderson-Darling test
- KS Kolmogorov-Smirnoff test
- chisq chi-square test