

PASS

Power Analysis and Sample Size Software

What is PASS?

PASS software is an easy-to-use research tool for determining the number of subjects that should be used in a study. As the leader in sample size technology, PASS performs power analysis and calculates sample sizes for over 150 statistical tests. With more sample size options than any other package, PASS is the best research planning tool on the market.

Why Purchase PASS?

In a scientific community where technical justification of sample size is expected and required, you should feel confident that your proposed research has a sample size estimate that is accurate and validated. PASS gives you that confidence by providing defensible, well-documented sample size and power estimates for the statistical test you will be using. PASS can also be used to determine if the power or sample size of a previous study was sufficient.

PASS is comprehensive

No other program calculates sample sizes and power for as many different statistical procedures as does PASS. PASS lets you solve for power, sample size, effect size, and alpha level.

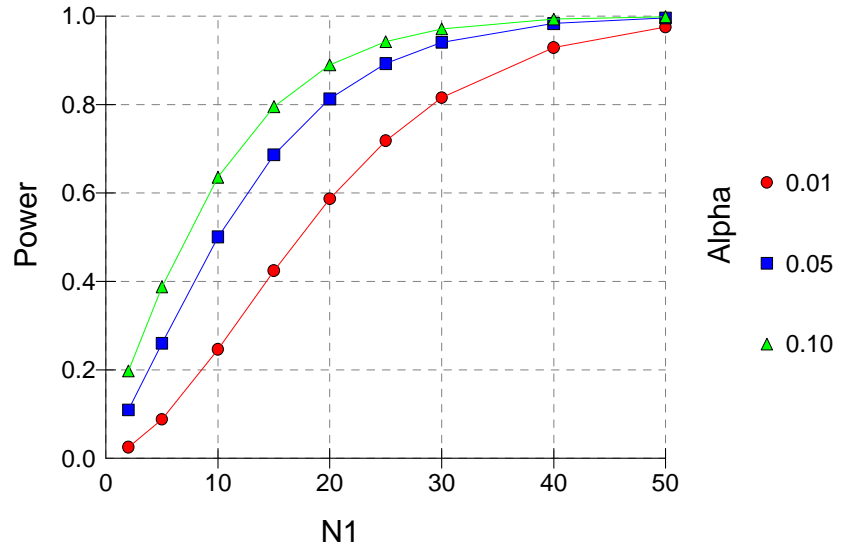
PASS is accurate

We at NCSS have put a great deal of effort into finding the most accurate algorithms possible. PASS has been extensively verified using published books and reference articles. Proof of the accuracy of each procedure is included in the extensive documentation. The programs have been tested and verified over and over, both by us and by our customers.

PASS is well-documented

PASS comes with complete documentation that contains tutorials, examples, annotated output, references, formulas, verification, and complete instructions on each procedure. If you cannot find an answer in the documentation, our free technical support staff (which includes PhD statisticians) is available.

Power vs N1 by Alpha with M1=20.90 M2=17.80
S1=3.67 S2=3.01 N2=N1 2-Sided T Test



PASS is easy to use

PASS automatically displays charts and graphs along with numeric tables and text summaries in a portable format that is cut-and-paste compatible with all word processors and presentation software, so you can easily include the results in your proposal.

PASS is a standalone system

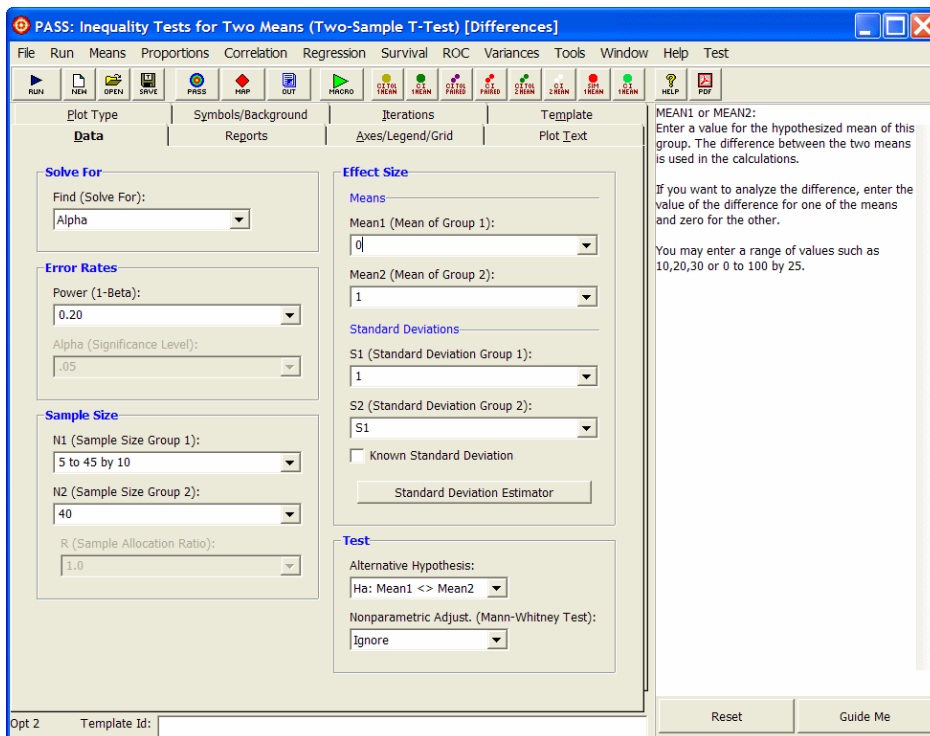
Although PASS may be integrated with NCSS, you do not have to own NCSS to run it. However, NCSS can be used to perform the data analysis for most of the procedures for which sample size or power is estimated in PASS.

Trial Available

You can try PASS by downloading it from our website at www.ncss.com. This trial software will function for 7 days. We are sure you will agree that it is the easiest-to-use, most accurate, and most comprehensive power analysis and sample size program available.

Our Guarantee...

If you are not completely satisfied with an NCSS product during the first 30 days for any reason, return the program for a full, prompt refund.



Procedures in PASS

Below is a list of many of the statistical procedures for which power and sample size calculations may be made using PASS.

Analysis of Variance

Cross-over designs
Factorial ANOVA
Fixed effects ANOVA
MANOVA
Multiple comparisons
One-way ANOVA
Planned comparisons
Randomized block ANOVA
Repeated measures ANOVA
Simulation

Regression / Correlation

Coefficient alpha
Confidence Intervals
Correlations
Cox regression
Intraclass correlation
Linear regression
Logistic regression
Multiple regression
Poisson regression

Confidence Intervals

Correlation
Means – 1 or 2 or Paired
Proportions – 1 or 2
Standard Deviation
Variances – 1 or 2
Slope - Linear Regression

Proportions

Chi-square test
Cluster-randomization
Cochran-Armitage trend tests
Confidence intervals
Equivalence tests
Fisher's exact test
Group sequential
Likelihood score tests
Mantel-Haenszel test
Matched case-control
McNemar test
Non-inferiority tests
Odds ratios, ratios
Proportions – 1, 2, & paired
Repeated Measures - 2 Sample
Two-stage designs (Simon's)
Three-stage designs

Mixed Models

Random Effects Models
Time Averaged Differencing (TAD)
Proportions (TAD) - 2
Means (TAD) - 2

T Tests

Cluster randomization
Confidence intervals
Equivalence
Group sequential
Hotelling's T-squared
Mann-Whitney test
Non-inferiority
One-sample t-tests
Paired t-tests
Repeated Measures
Simulation
Two-sample t-tests
Wilcoxon test

Equivalence - Non-Inferiority

Means
Proportions
Correlated proportions
Survival Analysis

Survival Analysis

Cox regression
Logrank survival
Group sequential - survival
Post-marketing surveillance
ROC curves – 1 or 2

Group Sequential Tests

Alpha spending functions
Lan-DeMets approach
Means
Proportions
Survival curves

Design of Experiments

Balanced incomplete Block
Create Randomization Lists
D-Optimal
Design Generator
Fractional Factorial
Latin Square
Response Surface
Screening
Taguchi
Two-Level

Microarray

One-sample or Paired t-tests
Two-sample t-tests

Miscellaneous Tests

Exponential means – 1 or 2
Kappa test
Normality tests
ROC curves – 1 or 2
Variances – 1 or 2

Miscellaneous Features

Automatic graphics
Finite population corrections
Inline references
Macros
Quick Launch
Solves for any parameter
Text summary
Unequal N's



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