



Statistical Data Analyses

PENNTAP helps Pennsylvania businesses improve their competitiveness by providing a limited amount of free technology assistance and information, on a confidential basis, to help resolve specific technical questions or needs.

PENNTAP can help you with questions regarding:

- data analyses
- quality control statistics
- statistical software
- technical evaluation of your data analyses
- procedures and design of experiments

Typical Statistical Data Analyses

Basic Statistics

- Cluster and Factor Analyses
- Collection and Sampling of Data
- Confidence Intervals
- Correlation
- Exploratory Data Analyses
- Hypothesis Testing
- Mean, Mode, and Median Analyses
- Paired and Unpaired t-tests

Graphs and Plots

- Box Plots and Bar Graphs
- Dot Plots and Interaction Graphs
- Fishbone Diagrams
- Histograms and Distributions
- Normal Probability Plots
- Pareto Charts
- Pie Charts

Regression and Variance Analyses

- Analysis of Variance (ANOVA)
- Moving Average Graphs
- Multiple Comparisons
- Multiple and Linear Regression
- Nonparametric Tests
- Prediction Intervals
- Residual Plots

Statistical Process Control (SPC)

- Capability Analyses (Six Sigma)
- Contingency Tables
- Control Charts
- Design-of Experiments (DOE)
- Gauge Analyses
- Trend Analyses

What You Can Expect

PENNTAP assistance will be prompt. We will listen to you to make sure we understand your specific question or need. We will then provide assistance through our own expertise and/or looking up information. If it is a question beyond our expertise or scope, we will refer you to other resources. After we provide the assistance, we will send you a brief evaluation survey to determine your satisfaction and the economic impact of our assistance.

Eligibility Criteria

Any Pennsylvania business is eligible for PENNTAP assistance.

For Assistance – Contact:

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Located at Penn State Lehigh Valley