

Confidence Limits for Single Sample Mean

To calculate confidence limits for single sample mean

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You can calculate this with:

$$\bar{x} \pm t_{\alpha(2),df} \sqrt{\frac{s^2}{n}}$$

$$\bar{x} \pm t_{\alpha(2),df} S_{\bar{x}}$$

where \bar{x} is the mean of each sample, $t_{\alpha(2),df}$ is the t value for the confidence range, with $\alpha(2)$ significance and df degrees of freedom. The n is the number of samples taken. Note the last part of the equation is the standard error.

Also See:

Chapter 9 - One-Sample Hypotheses pages 100-102 in:

Zar, J. H. 2007. Biostatistical Analysis. Prentice-Hall, Inc. Englewood Cliffs, New Jersey. 718 pp.