Confidence Limits for Single Sample Mean

To calculate confidence limits for single sample mean

Confidence limits for single sample mean

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: