$$CI = \frac{\sqrt{2}}{2} \left(F_{value}\right) \sqrt{\frac{s^2}{n} + (x_1 - \overline{x}_1)^2 \left(var * \beta_1\right) + (x_2 - \overline{x}_2)^2 \left(var * \beta_2\right) + s^2}$$

$CI = 90\%$ Confidence Interval

$s = $ Root mean square error

$n = $ Number of samples

$x_1 = $ Log of Avian Oral LD50

$\overline{x}_1 = $ Mean of Avian Oral LD50 logged values

$x_2 = $ Rat Dermal Toxicity Index

$\overline{x}_2 = $ Mean of rat Dermal Toxicity Index

$var = $ Variance of rat DTI and Avian Oral LD50