

Technical Paper 10

Normal curve

- A. A method of describing the distribution of some data.
- B. Normal curve description is potentially applicable to ratio and interval scale data.
- C. The shape of the normal curve depends on the mean and standard deviation of the data.
- D. General description

$$Y_i = \frac{1}{\sigma \sqrt{2\pi}} e^{-\frac{(X_i - \mu)^2}{2\sigma^2}}$$

- E. Standard normal curve ($\mu=0$ and $\sigma=1$)

$$Y_i = \frac{1}{\sqrt{2\pi}} e^{-\frac{X_i^2}{2}}$$