

Technical Paper 9

Diversity

- A. Measure of variability.
- B. Diversity is applicable to nominal data.
- C. Diversity has no units.

n = number of individuals in the sample
 f_i = number of observations in category i

$$H' = \frac{n(\log n) - \sum_{i=1}^k f_i \log f_i}{n}$$

Evenness

- A. Measure of equitability.
- B. Evenness is applicable to nominal data.
- C. Evenness has no units.

K = number of categories (species)

$$J' = \frac{H'}{H_{\max}} \quad \text{where} \quad H_{\max} = \log K$$