FORMULÁRIO

$$n = \frac{Nt^2 s_x^2}{NE^2 + t^2 s_x^2} \qquad n = \frac{Nt^2 (CV\%)^2}{N(E\%)^2 + t^2 (CV\%)^2} \qquad n = \frac{t^2 s_x^2}{E^2} \qquad n = \frac{t^2 (CV\%)^2}{(E\%)^2}$$

$$s_{\bar{x}}^2 \cong \frac{\sum_{i=1}^{n}(x_i - x_{i+1})^2}{2n(n-1)}(1-f) \qquad s_{\bar{x}}^2 \cong \frac{\sum_{j=1}^{m}\sum_{i=1}^{n_j}(x_{ij} - x_{(i+1)j})^2}{2n\sum_{j=1}^{m}(n_j - 1)}(1-f) \qquad W_h = \frac{N_h}{N} = \frac{A_h}{A}$$

$$\bar{x}_{st} = \frac{\sum_{h=1}^{L} N_h \bar{x}_h}{N} = \sum_{h=1}^{L} W_h \bar{x}_h \qquad s_{st}^2 = \sum_{h=1}^{L} W_h s_h^2 \qquad n = \frac{t^2 \sum_{h=1}^{L} W_h s_h^2}{E^2 + t^2 \sum_{h=1}^{L} \frac{W_h s_h^2}{N}} \qquad n = \frac{t^2 \sum_{h=1}^{L} W_h s_h^2}{E^2}$$

$$n_h = \frac{N_h}{N} n = W_h n \qquad s_{\bar{x}(st)}^2 = \sum_{h=1}^{L} W_h^2 \frac{s_h^2}{n_h} \qquad s_{\bar{x}(st)}^2 = \sum_{h=1}^{L} W_h^2 \frac{s_h^2}{n_h}(1 \quad f_h) \text{ ou } s_{\bar{x}(st)}^2 = \sum_{h=1}^{L} W_h^2 \frac{s_h^2}{n_h} - \sum_{h=1}^{L} \frac{W_h^2 s_h^2}{N}$$

$$QM_{dentro} = \frac{\sum_{i=1}^{n}\sum_{j=1}^{M}(x_{ij} - \bar{x}_i)^2}{n(m-1)} = S_d^2 \qquad QM_{entre} = \frac{\sum_{i=1}^{n} m(\bar{x}_i - \bar{x})^2}{n-1} \qquad S_e^2 = \frac{QM_{entre} - QM_{dentro}}{m}$$

$$r = \frac{S_e^2}{S_e^2 + S_d^2} \qquad n = \frac{t^2 S_x^2}{E^2 m}[1 + r(m-1)] \qquad S_{\bar{x}}^2 = \frac{S_e^2}{n} + \frac{S_d^2}{nm}$$

$$d_{cj} = d_j + \left(\frac{DAP_j}{200}\right) \qquad \overline{\ln(d_c)} = \frac{\sum_{j=1}^{N} \ln(d_{cj})}{N} \qquad \bar{d}_c = \exp\left(\frac{\sum_{j=1}^{N}\ln(d_{cj})}{N}\right)$$

$$\overline{M} = \bar{d}_c^2 \qquad DT = \frac{1ha}{\overline{M}} = \frac{10000\,m^2}{\overline{M}} \qquad DA_i = DT\left(\frac{n_i}{N}\right) \qquad DR_i = \frac{n_i}{N}100$$

$$G_i = \frac{\pi}{40000}\sum_{i=1}^{n_i}(DAP_i^2) \qquad GT = \sum_{i=1}^{S} G_i \qquad DoA_i = DA_i\left(\frac{G_i}{n_i}\right) \qquad DoR_i = \frac{G_i}{GT}100$$

$$FA_i = \frac{P_i}{P}100 \qquad FR_i = \frac{FA_i}{\sum_{i=1}^{S} FA_i}100 \qquad VC_i(\%) = \frac{(DR_i + DoR_i)}{2} \qquad VI_i(\%) = \frac{(DR_i + DoR_i + FR_i)}{3}$$