$$\overline{x}_h = \frac{\sum X_{hi}}{N_h}$$

$$P_h = \frac{\sum a_{hi}}{n}$$

$$\overline{X}_{ST} = \sum \overline{X}_h W_H$$

$$P_{ST} = \frac{\sum P_h N_h}{N} = \sum W_h \, p_h$$

$$W_h = \frac{N_h}{N}$$

$$S_h^2 = \frac{\sum (X_{hi} - \overline{X}_h)^2}{n_h - 1}$$

$$n = \frac{N Z^2 \sum W_h S_h^2}{N E^2 + Z^2 \sum W_h S_h^2}$$

$$n = \frac{N^2 Z^2 \sum W_h P_n Q_n}{N E^2 + Z^2 \sum W_h P_n Q_n}$$

$$\overline{X}_{ST} = \overline{X}_{ST} \pm t \sqrt{\left[\frac{1}{N^2} \sum N_h (N_h - n_h) \frac{S_h^2}{n_h}\right]}$$ <PROMEDIO>

$$\overline{X}_{(ST)T} = N \overline{X}_{ST} \pm t \sqrt{\sum N_h (N_h - n_h) \frac{S_h^2}{n_h}}$$ <TOTAL>

$$\hat{P}_{ST} = P_{ST} \pm t \sqrt{\frac{1}{N^2}\left[\sum N_h (N_h - n_h) \frac{P_h Q_h}{n_h}\right]}$$ <PROPORCION>

$$\hat{A}_{ST} = N P_{ST} \pm t N \sqrt{\frac{1}{N^2}\left[\sum N_h (N_h - n_h) \frac{P_h Q_h}{n_h}\right]}$$ <TOTAL>