Sample variance

$$S^{2} = \sum_{i=1}^{N} \frac{(x-x)^{2}}{N-1}$$

$$N = sample date$$

$$T = \sum_{i=1}^{N} \frac{(x-x)^{2}}{N-1}$$

$$T = \sum_{i=1}^{N} \frac{(x-x)^{2}}{N}$$

$$T = \sum_{i=1}^{N} \frac{(x-x)$$

understimating the tree population variance of the gay reduce undestimating the tree population variance