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Y.Emchenko@ukrstat.gov.ua;
ó : <http://www.ukrstat.gov.ua>.

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σ^2 is the variance of the observations y_i in the population. The standard error (SE) of the sample mean \bar{y} is given by:

$$SE = \sqrt{\frac{\sigma^2}{n}}$$
 where n is the sample size.

$$SE = \sqrt{\frac{\sigma^2}{n}}, \tag{1}$$

The variance of the sample mean \bar{y} is denoted by $\sigma^2_{\bar{y}}$. It is related to the population variance σ^2 and the sample size n as follows:

$$\sigma^2_{\bar{y}} = deff \cdot \frac{\sum_{i=1}^{i=n} (y_i - \bar{y})^2}{n}, \tag{2}$$

where y_i is the value of the i -th observation, \bar{y} is the sample mean, and $deff$ is the design effect. The design effect is a measure of the increase in variance due to the sampling design. For a simple random sample without replacement, $deff = 1$. For a balanced repeated replications (BRR) design, $deff$ is greater than 1.

(balanced repeated replications ó BRR),
WesVarPC.

ó ().

$$CV = \frac{LSE}{RSE} \cdot LSE$$

$$LSE = t \cdot SE, \tag{3}$$

t ó (), p (p ó LSE).
 t, : 0,67 (p = 0,50), 1,28 (p = 0,80), 1,64 (p = 0,90),
 1,96 (p = 0,95), 2,58 (p = 0,99).

$$\bar{y}_L = \bar{y} - LSE; \quad \bar{y}_R = \bar{y} + LSE. \tag{4}$$

CV :

$$CV = \frac{SE}{\bar{y}} \cdot 100 (\%) \tag{5}$$

5% < CV ≤ 10% ó CV ≤ 5%,
 10% < CV ≤ 25% ó
 CV 30% 40%).

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