

## Statistical Requirements for Authors Preparing the Manuscript for the Acta Scientiarum Polonorum s. Agricultura

It is suggested to use the following abbreviations and symbols for procedures and calculations used in statistical data analysis:

- analysis of variance of one variable ANOVA,
- analysis of variance of multiple variables MANOVA,
- principle component analysis PCA,
- factor analysis FA,
- clustering analysis CA,
- coefficient of variation CV,
- degrees of freedom  $df$ ,
- Fisher  $F$  distribution statistics,
- statistics of test distributions, eg  $t$  - Student,  $W$  - Shapiro-Wilk,
- the least significant difference with abbreviation of the name LSD  $N-K$ , HSD honestly significant difference by Tukey,
- sample size  $n$ ,
- the probability (either as probability level in confidence intervals or significance in tests) should be given as  $P$  value.
- significance at  $P < 0.05$  is \*,  $P < 0.01$  as \*\*,  $P < 0.001$  as \*\*\*
- not significant ns,
- regression coefficient (slope)  $b$ ,
- coefficient of simple correlation  $r$ ,
- coefficient of simple determination  $r^2$
- multivariate correlation coefficient  $R$ ,
- multivariate determination coefficient  $R^2$
- variance MS,
- standard deviation SD,
- standard error SE,
- standard error of mean SEM,
- arithmetic mean  $\bar{x}$

It is encouraged to present mean with mean errors SEM as:  $\bar{x} \pm \text{SEM}$

This section should inform about calculation procedures and the name of the statistical program used for the calculation of the data, eg R program, STATISTICA 12.5, SAS 10.0, SPSS et al.