

# INSTRUCTIONS TO AUTHORS OF MANUSCRIPTS FOR “AGRICULTURE”

## General Requirements

“Agriculture” is a **periodical publication of research articles** in the field of agronomy and related areas of biology sciences, published four times a year by the Lithuanian Institute of Agriculture in liaison with the Lithuanian University of Agriculture.

It publishes articles in the **Lithuanian and English languages** in the field of agronomy and related areas, which have not been previously published in scientific publications (except as theses, short reports, part of a lecture or review) and are based on scientific research. The article must be based on new, original experimental material, and the content should reflect not only statement of facts but also statistically validated analyses of correlation, the factors affecting the results and modelling of processes and predictions. The Editorial Board also accepts review, critical, problem, debating papers as well as those of a methodological nature, which on assessment of their scientific level and relevance, can be published in this publication. Individual articles can be invited by the Editorial Board at their own discretion.

On submission of the manuscript to the Editorial Board of “Agriculture”, the author(s) of the article guarantees that the material of the manuscript and the major scientific conclusions have not been previously published (except for the above-mentioned cases), and that the content of the manuscript and authorship have been agreed with the co-authors.

Suitability of the articles for this publication is approved, and its contents are arranged by the Editorial Board members, representing the key areas and branches of agronomy, and related areas of biology.

## Manuscript submission - acceptance procedures

Any Lithuanian or foreign research worker is entitled to submit their articles to the Editorial Board. If someone outside the research sphere wants to submit an article, it must be written in cooperation with a research worker.

A manuscript prepared on the computer following directions given in this text and printed on paper has to be sent to the Editorial Board of the Lithuanian Institute of Agriculture in duplicate. If the suitability of the manuscript does not raise any doubts, the Editorial Board appoints two referees. The manuscripts that have been rejected during the first appraisal will be returned to the author with an accompanying explanatory letter.

Having refereed an article within two weeks referees send it back by post to the Editorial Board, which may then return it with comments to the author for amendment. The names of the referees are not revealed to the authors. If the author does not agree with evaluation remarks of referees, he or she can submit an answer or explanation to the Editorial Board by post. The amended manuscript must be sent within two weeks to the Editorial Board by e-mail or by post together with a diskette. Members of the Editorial Board take their final decision concerning the eligibility of the manuscript.

## Requirements for the manuscript

### Structure and scope

The form of the manuscript must meet the requirements set for scientific articles. The text and its constituent parts should be arranged as follows:

**Title of the article** (not exceeding 10 words);

**First name, surname of the author;**

First name is written in small letters, surname in capital letters. If there are several authors the names are arranged according to their contribution in the authorship, starting with the greatest share of contribution.

**Institution, its address, e-mail address;**

## Main text

**Abstract** (not exceeding 600 characters);

Should provide very succinct description of objectives, materials and methods used, most relevant results and conclusions.

**Key words** (not exceeding 10);

**Introduction;**

Should contain a short description of the problem, results of other similar research conducted earlier, relevance and originality of this research and objective, hypothesis.

**Materials and Methods;**

**Results and Discussion;**

**Conclusions;**

**References;**

**Acknowledgement** (optional).

The article must be concluded by the author's or another responsible person's **signature** and **date**. Articles based on the results of non-traditional research as well as reviews, debating articles can have different structural parts of the text.

Manuscripts should not exceed a final length of **15 pages**, including tables and figures; larger articles are accepted only on agreement with the Chairperson of the Editorial Board.

## Preparation of the text

Manuscripts written in Lithuanian or English on a computer, typed using **MO Microsoft Word for Windows 97; 2000** text editor **Times New Roman (Baltic) font 13** on one side of A<sub>4</sub> format (210 x 297 mm) sheet, with (1) single spacing for the manuscript, for the text after refereeing 1.5 (1.5 lines), justify alignment, should be submitted in a 1.44 MB diskette. Width of margins: at the top 2.0 cm, at the bottom 2.54 cm, on the left and right 2.5 cm.

Title of the article, headings and major structural elements (**Abstract, Introduction, Materials and Methods, Results and Discussion, Conclusions, References**) should be written in bold. Latin names of plant species, genus, diseases, pests, micro-organisms should be written *in italics* (e.g. *Erysiphe graminis* DC ex Merat).

Use abbreviations sparingly, and try to use standard ones, e.g. dry matter DM, feed units FU etc.

## Tables

The data presented in tables should not repeat the information presented in figures or other illustrations.

Tables should be numbered in bold and *italics* (e.g. **Table 1**) and titles given above the data. Parts of the text in the tables should not be separated either by horizontal or vertical lines. Only the parts of table metrics and the end of the table should be separated by horizontal lines. The position of tables should be vertical only (Portrait).

Experimental treatments in the tables should not be marked by figures or complex abbreviations. They should be given in full or in clear abbreviated form.

## Figures

All illustrative material – drawings, graphs, diagrams, photos, pictures etc. are called by a common name of **figures** and the title written in **bold, italics** and abbreviated form – **Figure 1**. The text in figures should be written in the same way as in the tables.

Figures must be black and white done using **Microsoft Office 97, 2000** electronic table **EXCEL**, or other programmes of this package and should be provided **in the text** of the manuscript and by a separate **EXCEL file in a diskette**. A mandatory condition is a possibility of their electronic reproduction, therefore figures drawn or drafted by hand as well as copied are not acceptable and their remaking is charged according to valid prices. The Editorial Office reserves the right to change their format, taking into account design of an article or the whole publication.

## References

References can include:

- **articles**, published in scientific periodical journals, refereed scientific publications (books, monographs), conference/symposia proceedings whose material has been refereed;
- **scientific books, monographs, smaller reviewed scientific publications or their parts**;

It is recommended listing between 10 and 30 references. All of them have to be cited in the text (author's name and year). It is preferable that **two thirds of the references should be not older than 4-5 years**, older references should be of special significance and relevance. Only those authors' works that are directly related to the discussed subject shall be cited.

Research reports, manuscript material, textbooks, reference books, conference materials (theses or short reports), recommendations, promotional brochures and newspapers are not considered proper references and should not be included in the list. References to standards, reference books and other normative legal documents are indicated in the footnotes.

Titles of journals, conference proceedings etc. published abroad should not be abbreviated. The reference list should be arranged in an alphabetical order, Latin alphabet first.

### **Monographs, books, other scientific non-periodical publications**

Frame J. Improved grassland management. - UK, 1992. - 351 p.

### **Symposia, conference publications**

Gruzdevienė E. Control of fungal diseases of flax // Flax cultivation and research: conference proceedings. - Akademija, 2001, p.102-107

### **Articles from scientific journals and periodical publications**

Curci M., Pizzigallo M., Crecchio C. et.al. Effects of conventional tillage on biochemical properties of soil // Biology and Fertility of Soil. - 1997, vol.25, iss.1, p.1-6

Bush H. Dänische Energiepolitik und 15 Jahre Erfahrung in energie fisher Nutzung von Biomasse // Energicanwendung. - 1995, Bd.55, H.1, S.33-35

### **Abstracts of Dissertations**

Elfverson C. Analysis of physical and chemical properties of fractionated grains and seeds with an emphasis on barley: doctoral thesis. - Upsala, 1999. - 197 p.

## **Statistical data, figures and digits**

It is preferable that authors should give a detailed description of the experimental methods used and indicate their original sources. The data provided in the tables and figures **must be statistically processed**.

Reported data should include no more significant digits than the precision of the experimental methods warrants. Treatment means should be rounded to 1/10 of their estimated standard error.

## **Dimensions and nomenclature**

All physical units, their names and symbols must meet the requirements of SI system (Système International de Unités). Other units may be indicated in parentheses after the SI unit if this helps understanding.

The terms and names of plants, biology, entomology, phytopathology, pesticides, agrochemistry and soil must meet the most recent requirements of their international and national nomenclature, names and spelling.

## Symbols used in statistics

$F$  – variance ratio [F-test];  $n$  – number of subjects;  $P$  – probability of wrongly rejecting the null hypothesis;  $R$  – coefficient of multiple correlation, range of a sample;  $r$  – coefficient of correlation;  $V$  – coefficient of variation;  $r^2$  – coefficient of determination;  $s$  – standard deviation;  $s^2$  – variance;  $S_{\bar{x}}$  – standard error of the mean;  $t$  – statistic derived in Student  $t$ -test;  $\bar{x}$  – arithmetic mean;  $\alpha$  – probability of a type I error; significance level;  $\beta$  – probability of a type II error;  $\chi^2$  – statistic derived in chi-square test;  $\nu$  ( $d.f.$ ) – number of degrees of freedom;  $LSD$  – least significant difference.

## Units required in “Agriculture”

Unit	Dimension	Unit	Dimension
<b>Length</b>		<b>Pressure</b>	
Kilometer	km ( $10^3$ m)	Megapascal	Mpa ( $10^6$ Pa)
Meter	m	Pascal	Pa
Micrometer	$\mu$ m ( $10^{-6}$ m)	<b>Temperature</b>	
Millimeter	mm ( $10^{-3}$ m)	Celsius	(+, -) °C
Nanometer	nm ( $10^{-9}$ m)	<b>Transpiration</b>	
<b>Area</b>		Milligram per square meter second	$\text{mg}^{-2} \text{s}^{-1}$
Hectare	ha	<b>Water measurement</b>	
Square kilometer	$\text{km}^2$ ( $10^3 \text{ m}^2$ )	Cubic meter	$\text{m}^3$
Square meter	$\text{m}^2$	Cubic meter per hour	$\text{m}^3 \text{h}^{-1}$
Square millimeter	$\text{mm}^2$ ( $10^{-3} \text{ m}^2$ )	<b>Concentration</b>	
<b>Volume</b>		Centimole per kilogram (ion exchange capacity)	$\text{cmol kg}^{-1}$
Cubic meter	$\text{m}^3$	Milligram per kilogram	$\text{mg kg}^{-1}$
Liter	L ( $10^{-3} \text{ m}^3$ )	<b>Mass</b>	
Milliliter	ml	Gram	g ( $10^{-3}$ kg)
Microliter	μl	Kilogram	kg
<b>Energy, work</b>		Megagram	Mg (tona)
Joule	J	Gram per kilogram	$\text{g kg}^{-1}$
Joule per square meter	$\text{J m}^{-2}$	Tonne	t
Newton	N	<b>Time</b>	
Watt	W	Hour	h
Kilowatt	kw	Minute	min
<b>Yield and rate</b>		Second	s
Kilogram per hectare	$\text{kg ha}^{-1}$	Meter per second	$\text{m s}^{-1}$
Kilogram per cubic meter	$\text{kg m}^{-3}$		
Kilogram per square meter	$\text{kg m}^{-2}$		
Tonnes per hectare	$\text{t ha}^{-1}$		
Megagram per hectare	$\text{Mg ha}^{-1}$		
Liter per hectare	$\text{L ha}^{-1}$		