

About the Journal

Historic background

The Department of Agricultural Engineering (DEAg) (today the Agricultural Engineering Academic Unit - [UAEA](#)) of the Science and Technology Center (CCT) (today the Center of Technology and Natural Resources - [CTRN](#)) of the Federal University of Paraíba (UFPB) (today the Federal University of Campina Grande - [UFCG](#)), State of Paraíba, Brazil, taking into account the growing importance of Agricultural and Environmental Engineering for irrigated agriculture in the world, decided to launch, at the 209th Ordinary Meeting held on 12/09/1997, the Brazilian Journal of Agricultural and Environmental Engineering – AGRIAMBI (ISSN: 1807-1929 – online; 1415-4366 – printed). The Asociación Latinoamericana y del Caribe de Ingeniería Agrícola – ALIA, at the General Assembly held on 11/08/2000, in Guanajuato – Mexico, during the Latin American Congress of Agricultural Engineering (CLIA 2000), decided in favor of AGRIAMBI becoming ALIA Official Journal, a decision that was endorsed by the DEAg/CCT/UFPB Board, at the 236th Ordinary Meeting held on 12/10/2000. In the periods from 1997 to 2004, 2005 to 2006, and 2007 to 2009 the Journal was published every four months, quarterly and bimonthly, respectively, and since 2010 the Journal has been published monthly, in electronic format, by [UAEA](#). All articles published in the Journal, since the beginning of its edition in 1997, are available online on the [Journal's website](#) and on the [SciELO website](#), free of charge. Reproduction of published articles is permitted, provided the source is cited. In bibliographical captions, footnotes and references, an abbreviated title may be used in the following form: Rev. Bras. Eng. Agríc. Ambient., Campina Grande.

Mission of the journal

Contribute to the dissemination of research results carried out in the areas of knowledge of Agricultural and Environmental Engineering, providing knowledge to support the theoretical foundation of research to be developed in Brazil and abroad, favoring the training of researchers and improving the level of Postgraduate studies in Brazil and the strengthening of undergraduate teaching in Agricultural Engineering in Brazil.

Open Science Compliance

The Journal adopts Open Science, which is a global movement that aims, mainly, to make the knowledge generated from scientific research open and shared with the global scientific community. In addition to open access to published research results, the Agriambi journal, following the precepts of Open Science, makes public procedures to be adopted by editors, reviewers and authors related to issues such as the manuscript evaluation process, comments of reviewers on the manuscript, the participation of each author in the development of the research, acceptance of data sharing, communication in the manuscript about the availability of supplementary and/or additional data and information about tools for making this data available, publication of the name of the editors responsible for evaluating and approving the manuscript, publication of errata when cases of error(s) or flaw(s) in a published article are identified, and, similarly, cases of retraction.

In accordance with the purposes of Open Science, the Journal allows the corresponding author, when submitting the article or later, to submit the manuscript, preferably, to the SciELO Preprints server (<https://preprints.scielo.org/index.php/scielo>); as well as the Journal provides authors and reviewers with options to open the peer review process, with or without identifying their names. Both the identification of whether the article submission is a preprint and the authorization to disclose the name can be given by the authors at the time of submitting the article, attaching to the Journal's submission platform the form on compliance with Open Science provided by the link below, and by the reviewers when filling out the electronic opinion form, on the Journal's evaluation platform.

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Publication Ethics

The Journal adopts the ethical principles established by the Publications Ethics Committee (COPE), when it describes in its guidelines for editors, reviewers and authors guidelines relating to the following aspects: study planning and ethical approval; rigor in data analysis; definition of the merit of the research authorship; identification of conflicts of interest; rigorous review by experts in the field (peer review); misconduct; redundant publication; plagiarism; etc. For more information about the COPE guidelines, visit: www.publicationethics.org.

Ethics Committee and good practices in research

Articles that address studies involving human beings or animals directly or indirectly, in their entirety or parts thereof, including the handling of information or materials in all areas of knowledge, must inform in the Material and Methods section that the study was previously submitted, evaluated and approved by the competent Ethics Committee, including the name of the Commission, Institution and number of the CAAE – Certificate of Presentation of Ethical Appreciation, document or similar.

Focus and Scope

The Brazilian Journal of Agricultural and Environmental Engineering (Agriambi) is intended for the dissemination of original and unpublished scientific articles, prepared in English. Submitted articles must not have been sent to another journal and will be selected for evaluation by reviewers and by the Editorial Team only if they are fully within the Journal's norms. Agriambi also accepts the submission of contributions in the form of Review of Literature. Contributions in the form of preliminary note and technical note are not accepted by the Journal; It is also emphasized that the Journal does not publish studies of a purely technical and/or extension nature; those works that simply describe the development of software, spreadsheets, and cell phone applications are not accepted for publication. The scientific articles published in Revista Agriambi come from research carried out in the areas of Soil, Water, and Plant Management, Irrigation and Drainage Engineering, Meteorology and Agricultural Climatology, Storage and Processing of Agricultural Products, Environmental Management and Control (in the context of Agriculture/Animal Husbandry), Rural Constructions and Environment, Automation and Instrumentation, Agricultural Machines, and Energy in Agriculture.

Digital Preservation

This journal follows the standards defined in the [SciELO Digital Preservation Policy Program](#). Communication object files are structured in standard formats specific to each type of collection, including XML according to the SciELO Publishing Schema and other schemes, PDF, CSV spreadsheets, Excel spreadsheets, specific database formats, different image formats, audio and videos.

Indexing Sources

AGRIS – The International System of Science and Technology, <https://agris.fao.org>
AGROBASE, <https://snida.agricultura.gov.br/AGB>
ASFA - Aquatic Sciences and Fisheries Abstracts, <https://www.fao.org/asfa/en>
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CAB ABSTRACT, <https://www.cabi.org>
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CAPES – Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, <https://www-periodicos-capes-gov-br.ez292.periodicos.capes.gov.br>
Current Contents – Agriculture, Biology & Environmental Sciences, <https://www.abe.pl/en/journal/4840/current-contents-agriculture-biology-and-environmental-sciences>
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Bibliographical Sheet

Title of the periodical: Revista Brasileira de Engenharia Agrícola e Ambiental

Short title: Rev. Bras. Eng. Agríc. Ambient.
Published by: UAEEA/UFCG
Periodicity: Monthly
Publication mode: Continuous Publication
Year of creation of the Journal: 1997

Websites and Social Media

Websites: <https://www.agriambi.com.br/>; <https://www.scielo.br/j/rbeaa/>
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The Journal permits free access to published articles, contributing to the rapid dissemination of published research results, providing the necessary scientific support for the development of ongoing research in a timely manner, greatly boosting the citation of articles. It should be noted that all articles published in the Journal, since the beginning of its edition in 1997, are available online on the [Journal's website](#) and on the [SciELO website](#), free of charge.

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a) In a first stage, articles submitted in each fortnight of the month are evaluated by the Editorial Team, and those that do not fit into the Journal's publication policy or, even, that do not bring a relevant scientific contribution, are rejected

by the Editorial Team, on the basis of relative relevance criterion. The articles selected in this first stage are returned to the author(s) for reformulation in accordance with the Journal's norms, before being sent for evaluation to reviewers.

b) With the help of the opinions and suggestions of three reviewers on the first version of the article, the Editorial Team may accept or reject the article or ask the author(s) for a second version which, again, is evaluated by reviewers as well as the Editorial Team. In its second version, the article may be rejected, approved and/or returned to the author(s) for adaptation/modification.

c) It should be noted that, regardless of the reviewers' opinions, the Editorial Team, in any round of evaluation, is responsible for the final decision on approval or rejection of the article and the right to suggest or request modifications to the manuscript, deemed necessary.

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Publication charges

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Submission fee: R\$ 200.00 (Two hundred reais) - Payment made upon submission of the article.

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The Editorial Team of the Revista Brasileira de Engenharia Agrícola e Ambiental, in addition to the authors who publish in the journal, must always observe the guidelines on [Sex and Gender Equity in Research – SAGER](#). The SAGER guidelines comprise a set of guidelines that guide the reporting of information about sex and gender in study design, data analysis, and results and interpretation of findings.

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Types of documents accepted

- Types of documents that can be submitted to the journal:
Original scientific article and Literature Review.
- Accepted submission and publication language: English
- Positioning related to preprint submission:
The Journal accepts the submission of Preprints, and preferably recommends the SciELO Preprints server.
- Submitted articles must not have been sent to another journal and will be selected for evaluation by designated reviewers and editors only if they are fully within the Journal's standards.

- The scientific articles published in Agriambi Journal come from research carried out in the areas of Soil, Water and Plant Management, Irrigation and Drainage Engineering, Meteorology and Agricultural Climatology, Storage and Processing of Agricultural Products, Environmental Management and Control (in the context of agriculture), Rural Constructions and Environment, Automation and Instrumentation, Agricultural Machines, and Energy in Agriculture.
- The Agriambi Journal accepts the submission of contributions in the form of Review of Literature format.
- Contributions in the form of preliminary note and technical note are not accepted by the Journal. The Journal does not publish studies of a purely technical and/or extension nature; contributions that simply describe the development of software, spreadsheets and cell phone applications are not accepted for publication.

Article submission format

The article must have the following sequential composition:

a) Title in English

The title encompasses, with a maximum of 15 words, the content and objective of the work, including articles, prepositions and conjunctions, only the first letter of the first word must be capitalized; however, when the title has a subtitle, it is followed by a colon (:), the first letter of the first word of the subtitle (to the right of the colon) must be capitalized; Finally, the title should not contain the words like effect, evaluation, influence or study.

b) Name(s) of the author(s)

The article file sent at the time of submission must not contain the name(s) of the author(s) or the identification of their institution(s), as this file will be made available to reviewers in the system, ensuring double blind peer review; however, the name(s) of the author(s) will be informed to the system by the corresponding author upon submission. The corresponding author must already be registered as an author in the SciELO Publication System before starting the submission process. It is necessary for the corresponding author to define his position in authorship of the article in relation to the other authors. After submitting the article, changes regarding authors' are not permitted, whether in sequence, substitution or addition.

c) Institution and place where the research was carried out.

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Insert three highlights describing the main findings or results of the research, however, the words used in this description should not be the same as those in the conclusions. Each highlight must have a maximum of 125 characters with spaces. See examples of highlights in articles recently published in Agriambi Journal.

e) Abstract: maximum of 250 words and no abbreviations.

f) Key words

There must be a minimum of three and a maximum of five Key words, not included in the Title, separated by a comma and with all lowercase letters or the first letter capitalized for the scientific name of plant and animal species.

g) Title in Portuguese: must have the same standards as the title in English.

h) Resumo: maximum 250 words and must be a faithful translation of the Abstract.

i) Palavras-chave: will have the same standards as the Key words and must be a faithful translation of the Key words.

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It must highlight the relevance of the research, through a literature review, in maximum of two pages. There should not be, in the Introduction, equations, tables, figures or basic theoretical text on a given subject, but rather referring to research results. The last paragraph must present the objective of the research.

k) Material and Methods

It must contain essential information that allows other researchers to repeat the research.

Articles that address studies involving human beings or animals directly or indirectly, in their entirety or parts thereof, including the handling of information or materials in all areas of knowledge, must inform in the Material and Methods item that the study was previously submitted, evaluated and approved by the

competent Ethics Committee, including the name of the Commission, Institution and number of the CAAE document – Certificate of Presentation of Ethical Appreciation, or similar.

l) Results and Discussion

The results obtained must be discussed and interpreted in light of the literature. Do not present the same results/data in tables and figures.

m) Conclusions

They must be numbered and written succinctly, that is, without comments or additional explanations, based only on the results presented. Conclusions must not have abbreviations.

n) Contribution of authors

Authors must record their individual contribution to the article in this item, indicating whether they participated, for example, in obtaining financing, designing the research, reviewing the literature, obtaining, interpreting and discussing the results, writing, reviewing and approving the final version of the work, and coordinator of the research project. For more details on the authors' participation in the study, access the link <https://wp.scielo.org/wp-content/uploads/credit.pdf>.

o) Supplementary documents (optional)

If there is supplementary research data, the corresponding author must provide, in this item, a declaration of availability regarding location, nature and referencing.

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The submitted article must have at least 80% of citations from journals, with at least 40% from the last five years. There is no maximum limit on bibliographic references for both the original article and the contribution in the Literature Review modality.

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The contribution in the form of a Literature Review must have the following sequence: Title, Abstract and Key words in English and then Título, Resumo and Palavras-chave in Portuguese, Introduction, items on review themes or the items of Material and Methods and Results and Discussion, Conclusions, Contribution of authors, Acknowledgments (optional), Literature Cited.

DOI link

In the Literature Cited item, the corresponding author must provide the link to the publication's DOI at the end of the bibliographic reference of all scientific articles, when available.

Text editing

a) Microsoft Office 2016 Word: The submitted manuscript must have been edited only in the TEMPLATE, specific for Original Article or Literature Review, provided on the Agriambi Journal website, in this version of Word.

b) Text: Times New Roman font, size 12. There should be no words in bold or italics in the text, except for the title, items and sub-items, which must be in bold, and the scientific names of plant and animal species, which should be in italics. In equations, tables and figures there should be no italics or bold. Equations must be written in the MS Equation application.

c) Spacing: double throughout the text of the manuscript.

d) Paragraph: 0.5 cm.

e) Page: A4 paper, portrait orientation, top and bottom margins of 2.54 cm and left and right margins of 3.00 cm. Pages and lines must be numbered; the numbering of the lines must be continuous, that is, continuing from one page to the next.

f) All items in capital letters, in bold and centered, except Abstract and Resumo, which must be aligned to the left, and Key words and Palavras-chave aligned to the left and only the first letter capitalized. Subitems must be aligned to the left, in bold and only the first letter capitalized.

g) The quantities must be expressed in the IS (International System) and the scientific terminology must follow the international conventions of each area in question.

h) Digital assets (tables, figures, graphs, maps, images, photographs, drawings)

Tables and figures must be self-explanatory and 8.75 or 18 cm wide, with text in Times New Roman font, size 9 and inserted just below the paragraph in which they are cited for the first time. Examples of citations in the text: Figure 1; Table 1. Figures that have practically the same title should be grouped into a single figure, creating, however, an indicator of differentiation. The indicator letter for each subfigure in a grouped figure must be capitalized and with a full stop (.) at the end (example: A.), positioned on the upper left side of the figure. The grouped figures must be cited in the text, as follows: Figure 1A; Figure 1B; Figures 1A and B. Tables and figures measuring 18 cm wide will exceed the left and right margins of 3 cm, without any problems.

Tables must not have vertical dashes and a minimum of horizontal dashes. In the columns, numeric values must be aligned by the last digit. Example of the title, which should be above the table: Table 1. Selected INMET stations (without a full stop (.) at the end). In tables that present the comparison of means, according to statistical analysis, there must be a space between the numerical value (average) and the letter.

Figures must not have borders and their curves (in the case of graphics) can be colored, but always have different caption markers, since captions based only on colors will disappear when xeroxed. Example of the title, which should be below the figure: Figure 1. Accumulated soil loss depending on the time of application of simulated rain (without a full stop (.) at the end).

To avoid becoming redundant, figures should not have data contained in tables. Graphs, diagrams (curves in general) must come in vector images. When dealing with bitmap figures, the minimum resolution must be 300 bpi. Authors must strive for the quality of resolution of the figures in order to ensure a good understanding of them.

Legends, axes and axis titles of the figures must be legible and contain Times New Roman font and no italics or bold letters must be used. In cases of equal axis titles for Figures 1A, B, C... center the axis title for all figures. Figures with captions must have different markers for each curve, as figures with captions only based on color, when printed in black and white the captions disappear, making it impossible to identify each curve.

In case of research with treatments, inform in a table or figure, the value of the coefficient of variation (CV) for each variable evaluated. When there is regression

analysis, provide, in a table or figure, for each equation the value of the coefficient of determination (R²) followed by the CV value; there should be no figures of curves with R² less than 0.60; In these cases, include the equation and the respective R² value in the discussion of the results. Place in each regression equation presented in a table or figure, the symbols of the significance of the coefficients (* or ** or ns), positioning it in superscript between the values of the coefficients and the variable. Place a footnote in Times New Roman 9 font in the figure or table stating the probability of significance of the equation coefficients and the statistical test adopted; example: ** - Significant at $p \leq 0.01$ by the F test. Each experimental point plotted in the figure must have, through a vertical bar, the representation of the standard error or standard deviation, and a footnote with Times New Roman 9 font, must inform whether it is the standard error or standard deviation.

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The norms for citations and references adopted by the Journal are an adaptation of the Vancouver standards.

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- 1) When the citation has only one author: Oliveira (2020) or (Oliveira, 2020).
- 2) When the citation has two authors: Thomaz & Fidalski (2020) or (Thomaz & Fidalski, 2020).
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- 4) When the author of the work is an institution/company, the citation must be made by its full name or its acronym (when applicable), in capital letters: EMBRAPA (2020) or (EMBRAPA, 2020).
- 5) When there are citations with the same authors and from the same year: Liu et al. (2020a); Liu et al., 2020b); (Liu et al. (2020a,b).

List of Literature Cited

References cited in the text must be arranged in the Literature cited at the end in alphabetical order starting with the last surname of the first author and in ascending chronological order and contain the names of all authors. If the number of authors is more than six, place after the sixth author et al. Place at the

end of each scientific article reference listed the link to its doi for access, if available.

Examples of formatting are presented below:

a) Books

Rostagno, H. S.; Albino L. F. T.; Hannas, M. I.; Donzele, J. L.; Sakomura, N. K.; Perazzo, F. G.; Saraiva, A.; Teixeira, M. L.; Rodrigues, P. B.; Oliveira, R. F.; Barreto, S. L. T.; Brito, C. O. Tabelas brasileiras para aves e suínos: composição de alimentos e exigências nutricionais. 4.ed. Viçosa: UFV, 2017. 488p.

MAPA - Ministério da Agricultura, Pecuária e Abastecimento - Manual de métodos analíticos oficiais para fertilizantes e corretivos. 1.ed. Brasília, 2017. 240p.

Taiz, L.; Zeiger, E.; Moller, I. M.; Murphy, A. Fisiologia e desenvolvimento vegetal. 6.ed. Porto Alegre: ArtMed, 2017. 888p.

b) Book chapter

Motta, A. C. V.; Melo, V. F. Química dos solos ácidos. In: Melo, V. F.; Alleoni, L. R. F. Química e mineralogia do solo: conceitos básicos e aplicações. Viçosa: Sociedade Brasileira de Ciência do Solo. 2019. Cap.1, p.1009-1076.

Da Matta, F. M.; Ronchi, C. P.; Eduardo Ferreira Sales, E. F.; Araújo, J. B. S. O café conilon em sistemas agroflorestais. In: Ferrão, R. G.; Fonseca, A. F. A. da; Ferrão, M. A. G.; De Muner, L. H. Café conilon, Vitória: Incaper, 2017. Cap.19, p.481-494.

c) Journals

Examples of Journals that adopt article pagination corresponding to the page numbering of the PDF file

Anjos, F. A. dos; Ferraz, R. L. de S.; Azevedo, C. A. V. de; Costa, P. da S.; Melo, A. S. de; Ramalho, V. R. R. de A. R. Relationship between physiology and production of maize under different water replacements in the Brazilian semi-arid. Revista Brasileira de Engenharia Agrícola e Ambiental, v.26, p.21-27, 2022. <https://doi.org/10.1590/1807-1929/agriambi.v26n1p21-27>

Moura, M. de P.; Ribeiro Neto, A.; Costa, F. A. da. Application of satellite imagery to update depth-area-volume relationships in reservoirs in the semiarid region of

Northeast Brazil. Revista Brasileira de Engenharia Agrícola e Ambiental, v.26, p.44-50, 2022. <https://doi.org/10.1590/1807-1929/agriambi.v26n1p44-50>

Example of Journals that adopt electronic pagination with numbers only

Araújo, G. dos S.; Paula-Marinho, S. de O.; Pinheiro, S. K. de P.; Castro, E. M. de; Lopes, L. de S.; Marques, E. C.; Carvalho, H. H. de; Gomes-Filho, E. H₂O₂ priming promotes salt tolerance in maize by protecting chloroplasts ultrastructure and primary metabolites modulation. Plant Science, v.303, 110774, 2021. <https://doi.org/10.1016/j.plantsci.2020.110774>

Example of Journals that adopt electronic pagination with numbers and letters

Costa, P. S.; Ferraz, R. L. S.; Dantas Neto, J.; Martins, V. D.; Viégas, P. R. A.; Meira, K. S.; Ndhlala, A. R.; Azevedo, C. A. V.; Melo, A. S. Seed priming with light quality and *Cyperus rotundus* L. extract modulate the germination and initial growth of *Moringa oleifera* Lam. seedlings. Brazilian Journal of Biology, v.84, e255836, 2024. <https://doi.org/10.1590/1519-6984.255836>

d) Software references

SAS - Statistical Analysis System. User's guide statistics. 9.ed. Cary: SAS Institute, 2002. 943p.

R Core Team. R: A language and environment for statistical computing. Vienna: R Foundation for Statistical Computing, 2017. Available on: < <https://www.r-project.org/> > . Accessed on: Feb. 2020.

e) Other reference formats

INMET- Instituto Nacional de Meteorologia. Informações sobre as condições climáticas em Uberaba-MG. 2019. Available on: <<http://www.inmet.gov.br/>>. Accessed on: Jun 2021.

CONAB - Companhia Nacional de Abastecimento. Acompanhamento da safra brasileira de grãos: safra 2019/2020. Available on: <<http://www.conab.gov.br/Conabweb/download/pdf>>. Accessed on: Jun 2021

FAO - Food and Agriculture Organization - FAOSTAT (2017) Crops. Cowpeas, dry. Available on: <<https://faostat3.fao.org/home/index.html#DOWNLOAD>>. Accessed on: Nov. 2018.

MAPA. Ministério da Agricultura, Pecuária e Abastecimento. Brasília: MAPA, 2020.
Available on: < <https://agrofit.agricultura.gov.br/> >. Accessed on: Mar. 2021.

EMBRAPA - Empresa Brasileira de Pesquisa Agropecuária. Uso de informações ambientais na modelagem e interpretação da interação genótipo x ambiente. 1.ed. Santo Antônio de Goiás: Embrapa Arroz e Feijão, 2020. 46p.

Allen, R. G.; Pereira, L. S.; Raes, D.; Smith, M. Crop evapotranspiration: Guidelines for computing crop water requirements. Rome: Food and Agriculture Organization, 1998. 300p. Drainage and Irrigation Paper, 56

IPEA - Instituto de Pesquisa Econômica Aplicada. Sobre a agricultura irrigada no semiárido: uma análise histórica e atual de diferentes opções de política. Texto para Discussão, 2018. 56p. <https://www.ipea.gov.br/portal/>

References that have one or two authors, having the same authors and being from the same year, and references that have more than two authors, having the same name as the first author and being from the same year, must be identified in the list of Literature cited after the year, with the letters a, b, etc., according to the citation in the text, place the letter a for the article cited first.

Other information about article standardization

a) Do not put a full stop (.) at the end of Key words, Pajavras-chave and titles of tables and figures.

b) In the description of the parameters and variables of an equation there must be a dash separating the symbol from its description and a semicolon at the end of each description, with a full (.), however, in the last. The numbering of an equation must be in parentheses and aligned to the right: example: (1). The equations must be cited in the text, according to the following examples: Eq. 1; Eqs 3 and 4.

c) All letters of an acronym must be capitalized; the full name of an institution must only capitalize the first letter of each word.

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number with a unit or if it is accompanied by a number greater than 9); 2, 3, and 14 hours; 2 mm per day; 0.0015 g g⁻¹ per day; 2 x 3 (must be a multiplication sign); 45.2-61.5 (must be together); 6.0 and 13.0 Mg ha⁻¹ (consecutive numerical values that have the same unit, put the unit only in the last value); 0.14 m³ min⁻¹ m⁻¹.

e) When applicable, leave numerical values in the text, tables and figures with a maximum of two decimal places.

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