

# 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 209<sup>th</sup> 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 236<sup>th</sup> 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.

Form on compliance with Open Science: <https://wp.scielo.org/wp-content/uploads/Formulario-de-Conformidade-Ciencia-Aberta.docx>

## **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](http://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>  
BINAGRI, <https://www.gov.br/agricultura/pt-br/centrais-de-conteudo/biblioteca/bases-de-dados-da-binagri>  
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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>  
DOAJ – Directory of Open Access Journals, <https://doaj.org>  
EMBRAPA – Empresa Brasileira de Pesquisa Agropecuária, <https://www.bdpa.cnptia.embrapa.br/consulta/>  
EBSCO, <https://www.ebsco.com/pt>  
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FSTA - Food Science and Technology Abstracts, <https://www.ifis.org/fsta>  
GALE CENGAGE, <https://www.gale.com>  
Google Scholar Metrics, <https://scholar.google.com/schhp?hl=en>  
LATINDEX, <https://www.latindex.org/latindex>  
Open Assess Journal, <https://osjournal.org>  
REDALYC; <https://www.redalyc.org>  
SciELO – Scientific Electronic Library Online, <https://www.scielo.br>  
SciJoIn - Scientific Journal Index, <https://www.scijoin.org/>  
Scopus (Elsevier), <https://www.scopus.com/search/form.uri?display=basic#basic>  
SCIE - Science Citation Index Expanded; <https://clarivate.com/products/scientific-and-academic-research/research-discovery-and-workflow-solutions/webofscience-platform/web-of-science-core-collection/science-citation-index-expanded>  
SJR – Scimago Journal and Country Rank, <https://www.scimagojr.com>  
SUMARIOS.ORG, <https://sumarios.org>  
Web of Science (Clarivate), <https://jcr.clarivate.com/jcr/home>

## Bibliographical Sheet

Title of the periodical: Revista Brasileira de Engenharia Agrícola e Ambiental  
Short title: Rev. Bras. Eng. Agríc. Ambient.  
Published by: UAEA/UFMG  
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/>  
Instagram: User: @revistaagriambi

## EDITORIAL POLICY

### Open Access Policy

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.

### Preprints

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>). The identification of whether the article submission is a preprint will 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.

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### Peer review process

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.

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d) In principle, suggestions from reviewers and the Editorial Team must be incorporated into the manuscript by the author(s); however, they have the right not to accept them upon express justification, which is analyzed by the reviewer(s) and the Editorial Team.

e) In the case of approval of an article, the Editorial Team asks the corresponding author to get the English revised by a firm accredited by the Journal and, before its layout, if necessary, additional information is requested from the corresponding author. Subsequently, the diagrammed article is sent to the corresponding author in the form of a PDF file, for final review, who will inform the Editorial Team of any corrections after consulting other authors.

f) At the top of the first page of the PDF file of the published article, the link to the article's doi is provided on the left side and on the right side is mentioned if the publication is an Original Article or Review of Literature.

g) At the bottom of the first page of the PDF file of the published article, the name of the Editors responsible for evaluating the article is mentioned, as well as the protocol, dates of receipt, acceptance, and publication of the article.

h) After publication, any errors found by authors or readers, when communicated to the Editorial Team, will after due verification, be corrected through an errata in the next issue of the Journal.

i) Any information regarding the submitted article, the corresponding author may request from the Journal by providing the identification number of the submission in the SciELO System (ID), for example 283312.

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Authors are permitted to make their published articles available in institutional or other repositories of their choice.

If there is any supplementary research data, the corresponding author must inform the location, nature, referencing, and declaration of its availability in the manuscript.

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List of repositories for depositing research data: [https://wp.scielo.org/wp-content/uploads/Lista-de-Repositorios-Recomendados\\_pt.pdf](https://wp.scielo.org/wp-content/uploads/Lista-de-Repositorios-Recomendados_pt.pdf)

## **Publication charges**

The Agriambi journal has the following fees:

Submission fee: R\$ 180.00 (One hundred and eighty reais) - Payment made upon submission of the article.

Publication charges: For articles with up to 25 pages of the Word file, double spaced between lines, the publication fee will be R\$ 60.00 (sixty reais) per page. For articles with more than 25 pages, a publication fee of R\$ 1,500.00 plus R\$ 80.00 (eighty reais) per additional page will be charged; for example, for an article with 30 pages, the publication fee will be:  $25 \times 60.00 + 5 \times 80.00 = \text{R\$ } 1,900.00$ . Payment will be requested after the author submits the revised English version of the article.

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There is no possibility of discount or exemption from any of the fees charged.

## **Identification of misconduct**

When there is a question regarding authorship, the corresponding author is first contacted and, if necessary, all authors are contacted. In the event of an impasse, the authors' affiliated institution or funding agency(ies) involved in the development of the research may be contacted.

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The author(s) must declare in the manuscript whether there is any conflict of interest, either financial or of any other nature, that may have influenced the preparation or execution of the study. Furthermore, the corresponding author must declare it in a specific document signed by all authors and attached to the article submission platform. For more information, see: [Disclosure of Financial and Non-Financial Relationships and Activities, and Conflicts of Interest](#).

Likewise, the editors and reviewers designated to evaluate the article must declare that there is no conflict of interest, whether financial, family relationship (up to the third degree) or of any other nature that may have influenced the evaluation of the article.

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The Journal from v. 29 (2025), will use the Copyspider software (<https://copyspider.com.br/main/>) to check similarity, which will be carried out on the first version submitted and on the final revised version 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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- Mariana Dias de Medeiros (Secretariat and standardization).

- Walter Luiz Oliveira do Vale (Electronic publishing).

## INSTRUCTIONS TO AUTHORS

**Updated : 03/27/2024**

The norms of the Revista Brasileira de Engenharia Agrícola e Ambiental (Agriambi), presented below, are subject to modifications over time; therefore, we suggest that authors consult them when submitting their articles.

### 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.

j) Introduction

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.

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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.

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

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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.

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### 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. H<sub>2</sub>O<sub>2</sub> 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.

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

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