

JOURNAL OF SEED TECHNOLOGY

Volume 18

1994

Number 1



Published by the Association of Official Seed Analysts

Volume 18 • Number 1 1994

Published by the
Association of Official Seed Analysts

Editor

Susan Maxon
U.S. Department of Agriculture
Federal Seed Laboratory
Beltsville, Maryland

Associate Editors

W. Guerke	J. Ferguson
N. Hopper	D. TeKrony
J. Maguire	

Editorial Committee

S. Maxon, Chairperson	Beltsville, MD
B. Turnipseed, Editor, Newsletter	Brookings, SD
L. Copeland, Handbook Editor	East Lansing, MI

Published by the Association
Artcraft Printers
Bozeman, Montana

CONTENTS

Contributed Papers

- 1 The Effect of Liquid Nitrogen on Alfalfa Seed Viability, Emergence, and Broken Cotyledons
L.E. Wiesner, J.E. Laufmann, P.C. Stanwood, and L.J. Wheeler
- 7 Light Improves Reproducibility of Sweet Corn Seed Germination Tests
Dale O. Wilson Jr. and Richard C. Lawson
- 16 Effect of NaCl Concentration and Temperature on Germination of 'Tam Veracruz' Chile Seed (*Capsicum annuum* L.)
Anne K. Carter
- 21 The Effect of Storage Conditions on Canola (*Brassica napus* L.) Seed Quality
S.G. Elias and L.O. Copeland
- 30 Potassium Leakage from Artificially Aged Pea (*Pisum sativum* L.) Embryos during Imbibition
P.M. Cortes and S.C. Spaeth

SUGGESTIONS TO CONTRIBUTORS TO THE JOURNAL OF SEED TECHNOLOGY

General Requirements. Articles should be original reports covering some area of seed science and technology not previously or simultaneously published in any other scientific or technical journal. Three kinds of articles may be considered for publication: (1) research papers, (2) brief communications covering new techniques or developments, and (3) review articles by special arrangement with the editor.

Publication Charges. Page charges have been established for the Journal as follows: \$20 per page for the first 10 pages and \$50 per page for each additional page. Authors will be billed for charges when galley proofs are received.

Manuscripts. The manuscript must be typed on good-grade bond paper approximately 21 by 28 cm. The lines of type must be numbered on each page. Three copies, also on line-numbered paper, are required. The entire manuscript must be double spaced. Each table must be typed on a separate sheet. An abstract and list of Additional Index Words must be included at the beginning.

Order. Assemble the manuscript in the following order: Title (no separate title page), Author(s), Abstract, Additional Index Words, Text, Literature Cited (begin on a new page), Tables, Captions for Figures (begin on a new page), and Figures. Although the text is most commonly divided into the following sections: Introduction, Materials and Methods, Results and Discussion, Acknowledgments, the specific arrangement for articles submitted to the *Journal of Seed Technology* will vary. Place headings in the center of the page and capitalize throughout. Begin the subsection headings at the left hand margin (do not indent), capitalize the first letter, underline, and follow with a period. Begin the first sentence on the following line with the first word indented five spaces. Do not include a summary or list of conclusions.

Numbers. Use arabic numerals for all numbers with two or more digits and for all measurements such as time, weight, or degrees except when the number is the first word in a sentence. Spell out numbers when they are the first word in a sentence or when they are less than 10 and not measurements, except when in a series in which one figure has two or more digits.

Author(s). Place the name(s) of the author(s) in full caps below the title and footnote with a superscript arabic two (2). In listing the authors, do not leave a space between the period after each initial and the next letter. Give the place where the study was conducted and the title and address including the zip code of each author in footnote two at the bottom of the page.

Footnotes. Footnotes are numbered consecutively and typed at the bottom of each page. Number 1 should contain identification of the article or research project. Number 2 identifies the author(s).

Tables. Tables are numbered consecutively. Use the following symbols for footnotes, in this order: †, ‡, §, ¶, #, etc. Use asterisks (*, **, etc.) to indicate statistical significance (5%, 1%, etc.). Do not duplicate information that is presented in charts or graphs.

Figures. Photographs for halftone reproduction should be glossy prints with good dark and light contrast. Prepare drawings for graphs and charts with India ink, dry-transfer lettering system, or laser printer output on white drawing paper. Typewritten words should be avoided on graphs and charts. Label each figure with the name of author, title of article, and number of figure. Do not use figures which duplicate information presented in tables.

Style Manual. The *Style Manual for Biological Journals* prepared by the Committee on Form and Style of the Council of Biology Editors and published by the American Institute of Biological Sciences (AIBS) shall be followed for writing papers submitted to the *Journal of Seed Technology*. *The Publications Handbook and Style Manual* of the American Society of Agronomy can also be used as a guide in manuscript preparation.

Abbreviations. Use standard abbreviations listed in the AIBS Style Manual without definition. Other abbreviations should be defined at first usage and may be used thereafter without further definition. Names of states should be abbreviated following city names, using the two letter abbreviations of the U.S. Postal Service.

Nomenclature. The Latin binomial or trinomial and authority must be shown for all plants, insects, and pathogens at first listing (in title, abstract, or text). Crop varieties should be identified by single quotation marks at first listing only, e.g. 'Ranger' alfalfa (*Medicago sativa* L.) or *Medicago sativa* L. 'Ranger'; *Bothriochloa ischaemem* var. *songarica* (Rupr.) Cel. et Harl, 'King Ranch.'

Units of Measure. Metric units must be used for all measurements.

References. All citations whether to published literature or to unpublished work are to be listed alphabetically by senior authors at the end of the manuscript. Citations to published works should include names of all authors, the year, complete title, publication, volume number, and inclusive pages, as appropriate.

Submission of Manuscripts. All initial contributions and correspondence, including three copies of the original manuscript and artwork, should be sent to:

Susan Maxon, JOST Editor
USDA Federal Seed Laboratory
Room 213, Building 306, BARC-East
Beltsville, MD 20705-2325
Phone 301-504-8089

Subscription Information

Subscription rates are \$25.00 per year for the Journal of Seed Technology (JOST) and may be obtained by writing to the Association of Official Seed Analysts (AOSA). Back issues of JOST, as well as other AOSA publications are also available.

Association of Official Seed Analysts
P.O. Box 81152
Lincoln, NE 68501-1152