

NOTICE TO AUTHORS

Re publication in the Canadian Journal of Soil Science (Revised January 2003).

GENERAL PUBLICATION POLICIES

Authors may publish in this journal regardless of membership in the Agricultural Institute of Canada or its member organizations. Papers may be written in either English or French. Abstracts in both English and French are required for papers and Short Communications and, if not submitted by the author, will be prepared by the Journal at a nominal cost to the author or the institution.

CONTENT. We welcome manuscripts in fields related to soil science and agrometeorology that contain new information of national or international interest and application. Authors will be asked to identify which of the journal topic sections is most appropriate for the paper. The sections are: Review or Topical mini-review; Ecology, biological processes and plant interactions; Composition and chemical processes; Physical processes and interfaces; Genesis, landscape processes and relationships; Contamination and environmental stewardship; Management for agricultural, forestry and urban uses; or Open. Letters to the Editor may explain, amplify, or otherwise comment upon research published in the journal or other issues important to soil science.

SUBMISSION OF MANUSCRIPTS. All manuscripts must be submitted electronically, either on disc by mail (to Mr. T. Fenton, Agricultural Institute of Canada, Suite 1112, 141 Laurier Avenue West, Ottawa, Ontario, Canada K1P 5J3) or by e-mail (journals@aic.ca). If submitted by mail, one paper copy of the manuscript should be included. The manuscript should be submitted as a single file, in any version of PC Word or WordPerfect, with tables and illustrations embedded at the end. Authors should provide telephone, fax, and E-mail numbers when submitting papers. Manuscripts submitted to the journal must not have been concurrently submitted to other journals or posted on internet sites, either personal or institutional. When reference is made to manuscripts that are "in press", copies of the in-press manuscripts must accompany the manuscript submitted for review. Authors are strongly encouraged to provide the names of three potential reviewers. Authors are required to complete a Manuscript Submission form, which must be signed by all the authors. The form is printed in the February issue and is available on the journal's web site (www.nrc.ca/aic-journals/apssubmit.html).

OPTIONS AVAILABLE TO AUTHORS. Authors may request that the manuscript be reviewed under a "double blind" protocol. Under this protocol, the reviewers chosen by the Editors will not know who authored the paper. Authors using this option are responsible to inform the Editor and to provide manuscripts that maintain their anonymity. The title, author's(s') names and addresses must be provided to the Editor on a separate title page. Authors selecting this option are encouraged to discuss details with the Editor prior to submission.

Authors may also request expedited processing of a manuscript. This will entail extra costs for express mail and expedited handling by the journal office. A manuscript provided on disc and requiring little revision may appear in print in as little as three months after submission. However, expedited processing does not lessen the rigour of the review process, and papers requiring revision will be delayed. The option of expedited processing ensures that delays in mailing are not encountered, but does not guarantee publication within a set time interval. Authors selecting this option must contact the Editor prior to submission to establish costs, and payment for this option is due on submission. Authors may provide the names of several potential reviewers that have not been connected with the research, with the author(s), or with the author's(s') institution(s). The Editors may or may not choose to use the suggested reviewers, and will likely use at least one other.

PAGE CHARGE. A charge of \$75.00 per published page plus charges for illustrations and tables will apply to all manuscripts. Reprints will be available at a nominal cost; quotations will be sent with proofs. Authors are charged for excessive changes in proof.

ANIMAL CARE. If relevant, authors must certify that animals were cared for under guidelines comparable to those laid down by the Canadian Council on Animal Care (*Guide to the care and use of experimental animals*, avail-

able from CCAC, Tower 2, Suite 315, 350 Albert Street, Ottawa, Ontario, Canada K1R 1B1.)

THE MANUSCRIPT

GENERAL. Follow the Journal format. For style detail see the journal's Operation Manual, available in PDF format on the journal's website (<http://www.nrc.ca/aic-journals>). For matters not covered by the Operations Manual refer to *Scientific Style and Format: The CBE Manual for Authors, Editors, and Publishers* (6th edition, 1994) available from the Council of Biology Editors, Inc., Reston, VA 20190-5202 (<http://www.councilscienceeditors.org>). *Webster's Third New International Dictionary*, the *Oxford English Dictionary* or the *Larousse Dictionary* may be consulted for acceptable spelling. Consistency of spelling must be maintained throughout individual papers. Authors are urged to have one or more colleagues read the manuscript critically prior to submission.

SUBMISSION FORMAT. Consult a recent issue of the journal for format details. Each submission should have separate title and abstract pages. The title page should contain only the title of the paper, the short title, the author's(s') name(s), and author's(s') affiliation. The abstract page should contain only the abstract and key words. The remainder of the text should be continuous. Each table, identified by table number and title, should be on a separate page. Use line-numbering. Print double-spaced throughout, including tables, captions, and legends.

TITLE. Keep the title brief but include descriptive words to aid information retrieval. The title should reflect all the important aspects of the article.

ABSTRACT. The abstract should not exceed 200 words or 50 words for Short Communications. State your rationale, objectives, methods, results and impact of the study.

KEY WORDS and SHORT TITLE. Authors must include a list of key words or phrases with the manuscript. The list should be up to, but no more than six words or two- to three-word phrases chosen from the body of the paper. Authors must also supply a short title of up to 55 characters.

ORGANIZATION OF TEXT. The body of most papers should be divided into INTRODUCTION, MATERIALS AND METHODS, RESULTS, DISCUSSION, ACKNOWLEDGEMENTS and REFERENCES. Title of the paper is initial capital and lower case. Main headings are capitalized and centred on the page. Subheadings are as follows: first subheadings, flush left, separate line, capitalize main words, bold; second subheadings, flush left, capitalize main words, italic; third subheadings, flush left, same line as text, initial capital and small caps, followed by period. Use footnotes only to identify author's(s') institution or for explanatory comments for tables.

ENUMERATION AND MEASUREMENT. Use numerals whenever a number is followed by a standard unit of measurement: e.g., 1 g, 9 d; otherwise, use words through nine and numerals for larger numbers. See *Scientific Style and Format* for exceptions when describing a series of numbers. Report data in SI units (see table of acceptable SI units published in this, or a recent issue of the Journal).

ABBREVIATIONS. For commonly used terms, consult *Scientific Style and Format*. Abbreviations are printed in bold face the first time they are used.

NAMES AND TERMS. Soil names should be based on the Canadian soil classification system wherever possible, and other national or international systems may be used in addition. Geographic location names, or numerical coordinates, are encouraged where appropriate to facilitate indexing in international databases. Italicize or underline scientific names of organisms and include authorities only for organisms actually used in the investigation. Use cultivars for agronomic or horticultural varieties. Single quotes are used to enclose the name of the cultivar only when it follows the botanical name. Plant and animal species should be referred to by common name. The complete scientific name and authority should be given when the plant species is first mentioned in the text or in the abstract for those plant species used in the investigation, but is not required for common species of domestic animals. Pesticides should be referred to by their approved common name throughout the text; where no common name is available the full chemical name should be given at first mention in the text.

STATISTICS. The statistical design should be described briefly and clearly. Data should be analyzed and summarized by appropriate statistical methods; authors should examine closely their use of multiple comparison procedures. A measure of variability, e.g., standard deviation or standard error,

must be provided when reporting quantitative data (see Letter to Editor, *Can. J. Plant Sci.* **60**: 325-327). Consult *Scientific Style and Format*.

REFERENCES. Cite only literature that is highly pertinent; avoid multiple citations. Check each reference with the original article and refer to it in the text by the author and date. Use "et al." when there are more than two authors but give all authors in the references. Include in references articles that are "in press" (name journal and anticipated date of publication) but incorporate in text "manuscript in preparation", "unpublished observations", and "personal communication".

Type all authors (upper and lower case) surnames first, followed by initials. Double-check the accuracy of all pages, volume numbers and dates. Refer to BIOSIS (current issue) List of Serials with Title Abbreviations (Bioscience Information Service of Biological Abstracts, 2100 Arch Street, Philadelphia, PA 19101-1399) for accepted abbreviations for journals; only these may be used. Refer to "Citing electronic publications in the Canadian Journal of Plant Science" available on the journal's web site at: www.nrc.ca/aic-journals/apssubmit.html.

TABLES. Study carefully the appropriate section in *Scientific Style and Format*. Suitable statistical statements on estimates of reliability should be included when quantitative data are shown. Denote footnotes using bold superscript letters in reverse order starting with z: ^z, ^y, ^x, ^w, ^v, ^u etc. Tables must be numbered, have a brief title, and be referred to in the text. Vertical rules are not accepted.

ILLUSTRATIONS. For **submitted manuscripts**, illustrations must be embedded at the end of the text file (Word and WordPerfect graphics are acceptable for submitted manuscripts). For **accepted manuscripts** either hard copies or electronic versions of graphics are acceptable. Graphics files must be compatible with QuarkXpress. The following file formats are acceptable: *.tif, *.bmp, *.gif, *.eps, *.jpg (for photographs; must be high resolution). Word and WordPerfect graphics files are not acceptable for accepted

manuscripts. Images should be of sufficient resolution to print clearly (minimum 150 dpi). Illustrations should be planned to fit one-column, two-column or full page formats. Lines must be sufficiently thick (minimum 0.5 points) to reproduce clearly, and lettering and symbols must be in proportion to the illustration and large enough to allow for reduction without loss of clarity. Use clear, bold patterns; avoid the use of fine grey scale patterns, which will plug when scanned and printed. Labelling on graphs should be parallel to the graph's axes. Abbreviations, units, etc. should follow journal style. Photographs are best submitted close to final size and should be clear black and white prints with good tonal contrast. Illustrations (line or photograph) should not be mounted. Use uppercase letters to mark subdivisions. Colour photographs are accepted but authors are expected to pay the full cost of reproduction. Contact the journal office for advice on how best to submit colour illustrations.

All illustrations should be labelled on the back in pencil with the senior author's name and the figure number. Illustrations produced on dotmatrix printers are not acceptable. Papers that do not have good-quality illustration will not be published.

SPECIAL PUNCTUATION. Period after et al. (not italic); no comma between author's(s') name(s) and year in text; no period after title of table.

SHORT COMMUNICATIONS. Short Communications are open to short preliminary reports of important findings of usually not more than 2000 words. They might contain research results that are complete but characterized by a rather limited area or scope of investigation, descriptions of new or improved techniques or equipment including data performance. Short Communications should contain only a few (usually not more than nine) references. Consult a recent issue of the Journal for format. Illustrative material should be kept to a minimum, usually not more than one table or figure. Abstracts are obligatory and shall be no longer than 50 words.

Examples of SI units acceptable in the Canadian Journal of Soil Science

Quantity	Application	Unit	Symbol or expression of unit
Absorbed dose rate	Plant/livestock	gray per second	Gy s ⁻¹
Area	Land	hectare	ha
	Leaf	square centimetre	cm ²
Concentration	Fertilizer	kilograms per hectare	kg ha ⁻¹
	Solutions	micrograms per gram	µg g ⁻¹
grams per litre or mole per litre		g L ⁻¹ or mol L ⁻¹	
Density	Soil	megagram per cubic metre	Mg m ⁻³
Electrical conductivity	Salt tolerance	decisiemens per metre	dS m ⁻¹
Elongation rate	Plant	centimetre per day	cm d ⁻¹
Ethylene production	N ₂ -fixing activity	nanomole per plant per second	nmol plant ⁻¹ s ⁻¹
Hydraulic conductivity	Water flow	metre per day	m d ⁻¹
Growth rate	Plant	gram per square metre per day	g m ⁻² d ⁻¹
Interplanar space	Clay mineral structure	nanometre	nm
Ion exchange	Soil		
	(cation exchange capacity)	mmole (+) per kilogram	mmol (+) kg ⁻¹
Ion transport	Ion uptake	mole per kilogram per second	mol kg ⁻¹ s ⁻¹
Length	Soil depth	metre	m
Light	Photonflux density (400–700 nm)	micromole per square metre per second	µmol m ⁻² s ⁻¹
		milligram per square metre per second	mg m ⁻² s ⁻¹
Pressure	Water potential	kilopascal	kPa
Radioactivity	Soil, plant	becquerel	Bq or s ⁻¹
Specific heat	Heat storage	joule per kilogram per kelvin	J kg ⁻¹ K ⁻¹
Temperature	Soil and plant	celsius or kelvin	°C or K
Volume	Solutions	litre	L
		cubic metre	m ³
Yield	Field and vegetable crops	tonne per hectare	t ha ⁻¹
		gram per square metre	g m ⁻²
	Mass of plant	gram per plant or plant part	g plant ⁻¹ or g kernel ⁻¹

Units with two divisors should be written with negative indices (e.g., kg ha⁻¹ yr⁻¹). The use of a solidus (/) should be reserved for units written in full (e.g. mole/kilogram) or to separate a physical quantity and unit (e.g., yield/ha). Units should be chosen so that the numerical component falls between 1 and 10 or 1 and 100 when using one or two significant figures, respectively (e.g., use 31.2 mg rather than 0.0312 g).

Wherever possible the use of percent (%) should be avoided, but may be used in such instances as percent land area, percent of population, etc.