

AGRONOMY JOURNAL

Issued on the 20th of Every Other Month
 Business and Editorial Offices at 677 S. Segoe Road
 Madison, Wis. 53711

Published in January, March, May, July, September, and November by the American Society of Agronomy. (Volumes 1-52 were published monthly.)

Second class postage paid at Stevens Point, Wis. Forms close 20 days prior to issuance of each number.

Subscription rates: \$14.00 per year, \$2.50 per copy, postpaid, in the U. S. and Canada. All other subscriptions: \$15.00 per year, \$2.50 per copy. Available back issues: \$2.50 per copy, postpaid, U. S. or foreign. (Payment in advance is required on foreign orders for back issues.)

Membership in the society at \$15.00 per year includes a subscription to this journal plus AGRONOMY NEWS, AGRONOMY ABSTRACTS, and other privileges.

New subscriptions, renewals, and new memberships which include the JOURNAL begin with the January number of the current volume.

Changes of address should be received by the 1st of the month in which they are to take effect.

Claims for copies which fail to reach paid subscribers must be received by AGRONOMY JOURNAL within 90 days of publication date for domestic subscribers, and within 1 year of publication date for foreign subscriptions. Claims for replacement copies presented later than the dates specified will not be honored.

Subscriptions, renewals, and membership fees for the current volume and orders for back numbers should be sent to the Executive Secretary, 677 S. Segoe Road, Madison, Wis. 53711.

Articles concerned with the instruction, demonstration, experimentation, or research in agronomy will be accepted from active members of the Society if deemed suitable by the Editorial Board. It is understood that articles submitted for publication have not been previously and will not be simultaneously published in any other scientific or technical journal without the consent of the Editor of this JOURNAL. At least one author of a paper must be an active member of the American Society of Agronomy.

Free publication in the JOURNAL is limited to four pages, with a charge of \$35.00 for each additional one-half page. The JOURNAL does not assume financial liability for halftone engravings or zinc etchings beyond \$15.00 for each contribution. The author of any otherwise acceptable paper may have it published immediately by paying the entire cost of publication; publication of such a paper does not affect the priority of any paper on the regular schedule.

M. STELLY, *Editor and Executive Secretary*

JOHN PESEK, *Technical Editor, Soils*

J. R. COWAN, *Technical Editor, Crops*

S. R. ANDERSON, *Technical Editor, Agronomic Education*

H. L. HAMILTON, *Managing Editor*

Associate Editors

Crops
 H. R. FORTMANN
 R. H. HAGEMAN
 E. S. HORNER
 J. W. LAMBERT
 E. C. ROBERTS
 W. M. ROSS
 J. W. SCHMIDT
 E. H. STANFORD
 *M. B. TESAR
 J. H. WILLIAMS
 *C. P. WILSIE

Climatology
 P. E. WAGGONER

Agronomic Education
 L. P. CARTER
 L. H. SMITH

Soils
 A. R. AANDAHL
 †A. R. BERTRAND
 G. R. BLAKE
 M. E. HARWARD
 †D. J. LATHWELL
 W. L. LINDSAY
 R. E. LUCAS
 J. M. MACGREGOR
 H. D. MORRIS
 D. R. NIELSEN
 J. W. PENDLETON
 W. H. PIERRE
 E. L. SCHMIDT
 G. L. TERMAN

Statistics
 D. D. MASON

* Joint Associate Editors with *Crop Science*.

† Joint Associate Editors with *SSSA Proceedings*.

BOARD OF DIRECTORS AMERICAN SOCIETY OF AGRONOMY

OFFICERS:

D. C. SMITH, *President* R. S. WHITNEY, *Past President*
 W. L. NELSON, *President-elect* MATTHIAS STELLY, *Exec. Sec.-Treas.*

OTHER DIRECTORS:

A. R. AANDAHL	C. H. HANSON	R. A. OLSON
S. A. BARBER	E. R. HEHN	R. V. OLSON
W. V. BARTHOLOMEW	G. B. KILLINGER	J. R. RUNKLES
H. B. CHENEY	E. R. LEMON	L. F. SEATZ
R. R. DAVIS	D. E. MCCLLOUD	W. O. SCOTT
F. P. GARDNER	H. D. MCMURTRY	C. T. YOUNGBERG
W. R. GARDNER	J. R. MILLER	V. E. YOUNGMAN
C. S. GARRISON		



The BEST in Growth Chambers

CUSTOM-BUILT OR STANDARD

From photo cells to phytotrons . . . our experience is yours for the asking. Let us help with your environmental program.

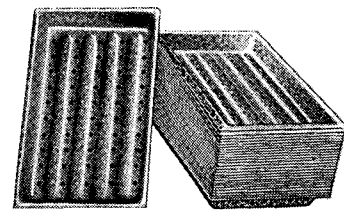
BUILDERS OF THE NORTH CAROLINA PHYTOTRONS



ENVIRONMENTAL GROWTH CHAMBERS

P.O. BOX 407C, CHAGRIN FALLS, OHIO 44022
 PHONE 216 247-5100

END Your Flats Problem!



NORMAN Galvanized Metal Flats Will Save You Time, Worry and Money

They are always ready for use; no assembly problem, no repairs, will not fall apart. They are fireproof, termite-proof and easy to handle.

MADE IN FOUR SIZES

10x14x2½" deep 56¢ each
 10x14x3½" deep 65¢ each
 13x22x2½" deep 75¢ each
 14x20x3½" deep 86¢ each

SHIPPING WEIGHTS

80 flats 10x14x2½" weigh 100 lb
 68 flats 10x14x3½" weigh 100 lb
 40 flats 13x22x2½" weigh 100 lb
 34 flats 14x20x3½" weigh 100 lb

Send us a trial order, or write for illustrated folder.
 You'll be glad you did!

THE W. E. NORMAN SHEET METAL MFG. CO.

DEPT. AJ

NEVADA, MISSOURI, 64772